XR-340/430

SERVICE MANUAL

US Model
Canadian Model

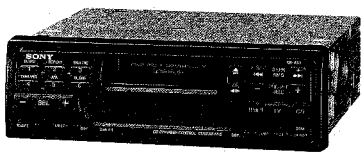


Photo : XR-430

Model Name Using Similar Mechanism		XR-U500/U700
Tape Transport	XR-340	MG-55QA-31
Mechanism Type	XR-430	MG-55QB-31

SPECIFICATIONS

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
8 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other Specifications

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08% (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	

XR-340 :

Cassette type	Dolby B NR	Dolby NR off
TYPE II, IV	67 dB	61 dB
TYPE I	64 dB	58 dB

XR-430 :

Cassette type	Dolby B NR	Dolby C NR	Dolby NR off
TYPE II, IV	67 dB	73 dB	61 dB
TYPE I	64 dB	70 dB	58 dB

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

—Continued on next page—

FM/AM CASSETTE CAR STEREO

SONY®

MICROFILM

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/ 450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	25 W × 4 ch (at 4 ohms)

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Loudness	+6 dB at 100 Hz +6 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)

Dimensions	Approx. 186 × 57 × 170 mm (7 3/8 × 2 1/4 × 6 3/4 in.) (w/h/d) not incl. projecting parts and controls
Mounting dimension	Approx. 182 × 53 × 153 mm (7 1/4 × 2 1/8 × 6 1/8 in.) (w/h/d) not incl. projecting parts and controls
Mass	Approx. 1.3 kg (2 lb. 14 oz.)
Supplied accessories	Mounting hardware (1 set) Power connecting cord (1) Front panel case (1) S commander RM-X1S (1) (XR-430)

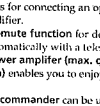
Design and specifications subject to change without notice.

This section is extracted from XR-340's instruction manual.

Features

General

- **Detachable-front panel** enables you to take the front panel away with you when you leave your car (page 13).
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit.
- Provided with a **digital 12-hour clock** (page 14).
- Line outputs for connecting an optional power amplifier.
- **Telephone-mute function** for decreasing the volume automatically with a telephone call.
- **Built-in power amplifier (max. output: 25 W × 4 ch)** enables you to enjoy a 4-speaker system.
- **Optional S commander** can be used.



Cassette player section

- **Dolby B NR*** system reduces tape hiss noise during tape playback (page 7).
- **Intro scan function** for playing the first 10 seconds of each track (page 15).
- **Repeat play function** for playing back a currently playing track repeatedly (page 15).
- **Blank skip function** for automatically skipping blank spaces during tape playback (page 7).
- **ATA (Automatic Tuner Activation)** for automatically turning on the tuner while fast-forwarding or rewinding a tape (page 7).

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

Tuner section

- Up to 24 stations can be preset: 18 stations on FM and 6 stations on AM.
- **BTM (Best Tuning Memory) function** automatically searches and stores the stations with the strongest signals on the preset number buttons in order of frequency (page 26).
- **Station memo function** for displaying the names of the radio stations stored in the memory (page 29).

CD changer control section (when the optional Sony CD changers are connected)

- **Several Sony CD changers (not supplied) can be connected and controlled** by the use of the Sony source selector(s) (not supplied).
- **Custom file function** for displaying the title of each disc and setting the PLAY/SKIP mode on each track (page 20).*
- **Shuffle play function** for playing tracks in random order (page 17).
- **Intro scan function** for playing the first 10 seconds of each track (page 19).
- **Repeat play function** for playing a currently playing track repeatedly (page 18).

* Only when CD changers with custom file function are connected.

TABLE OF CONTENTS

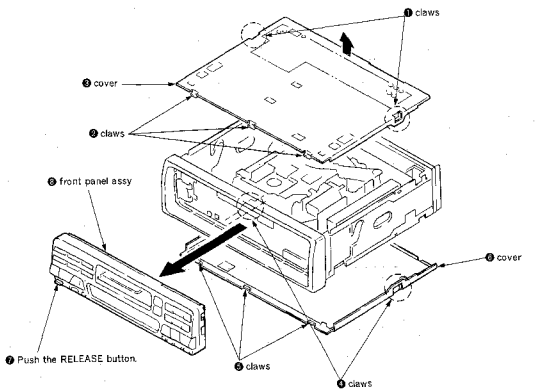
Section	Title	page
1.	**GENERAL**	
	Location and Function of Controls	4
	Detaching and Attaching the Front Panel	5
	Setting the Clock	6
	Listening to the Tape Playback	6
	Listening to the CD Play	6
	Playing in Other Modes	6
	Displaying the Title of Each Disc	7
	Playing Selected Tracks on a Disc	8
	Displaying the Stored CD's Information on the TV Monitor	8
	Tuning in a Station	9
	Memorizing the Stations Automatically	9
	Memorizing Only the Desired Stations	9
	Receiving the Memorized Stations	9
	Displaying the Name of Each Station	10
	Displaying the Contents of the Preset Memory on the TV Monitor	10
	Watching Video	11
	Watching TV or Video While Listening to CD or Tape	11
	Installation	12
	Connections	13
2.	**DISASSEMBLY**	
2-1.	Cover, Front Panel Assy	15
2-2.	Sub Panel Assy	15
2-3.	Mechanism Deck Block	16
2-4.	Power Board	16
2-5.	Main Board	17
3.	**MECHANICAL ADJUSTMENT**	18
4.	**ELECTRICAL ADJUSTMENTS**	
	Test Mode	18
	Deck Section	18
	Tuner Section	20
5.	**DIAGRAMS**	
5-1.	Pin Function	23
5-2.	Block Diagram	25
5-3.	Circuit Boards Location	28
5-4.	Printed Wiring Boards—Main Section—	29
5-5.	Schematic Diagram—Main Section—	33
5-6.	Schematic Diagram—Power Section—	38
5-7.	Schematic Diagram—Key Section (XR-340)—	41
5-8.	Printed Wiring Board—Key Section (XR-340)—	43
5-9.	Printed Wiring Board—Key Sectiton (XR-430)—	45
5-10.	Schematic Diagram—Key Section (XR-430)—	47
5-11.	Semiconductor Lead Layouts	51
6.	**EXPLODED VIEWS**	
6-1.	Chassis Section	52
6-2.	Front Panel Section	53
6-3.	Mechanism Deck Section 1	54
6-4.	Mechanism Deck Section 2	55
6-5.	Mechanism Deck Section 3	56
7.	**ELECTRICAL PARTS LIST**	57

Refer to Supplement-1 for Section 1 General (Page 4 to 13).

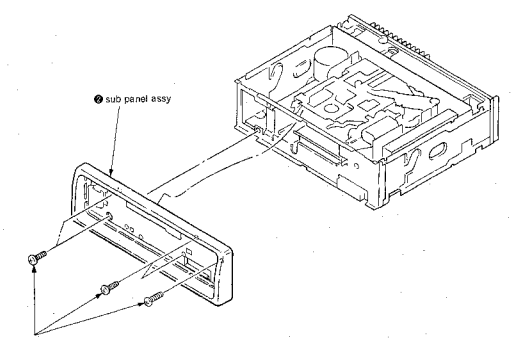
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

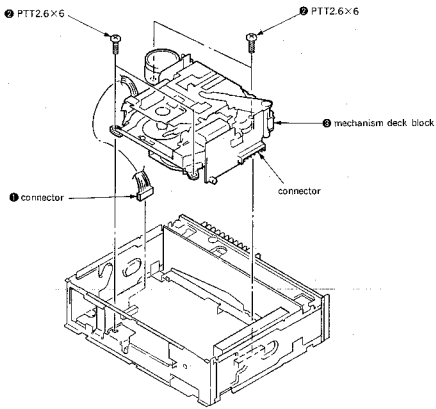
2-1. COVER, FRONT PANEL ASSY



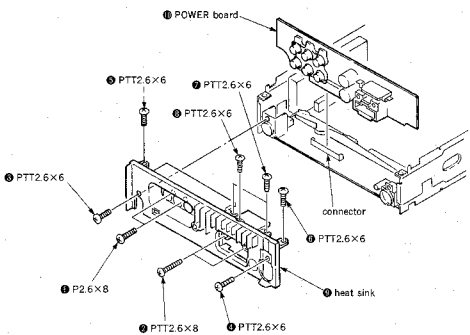
2-2. SUB PANEL ASSY



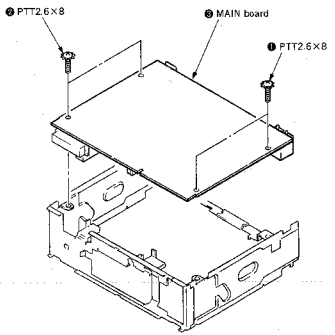
2-3. MECHANISM DECK BLOCK



2-4. POWER BOARD



2-5. MAIN BOARD



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	35 – 35g•cm (0.49 – 0.76 oz•inch)
FWD Back Tension		1.5 – 4.5g•cm (0.02 – 0.06 oz•inch)
REV	CQ-102RC	35 – 35g•cm (0.49 – 0.76 oz•inch)
REV Back Tension		1.5 – 4.5g•cm (0.02 – 0.06 oz•inch)
FF, REW	CQ-201B	80 – 170g•cm (1.11 – 2.36 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100g
REV	CQ-403R	(more than 3.53 oz)

SECTION 4
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM Auto Scan/Stop Level adjustments can be performed easier than it in ordinaly procedure.

〈Set the Test Mode〉
1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for two seconds.
5. Then the display indicates five patterns and stops, the test mode is set.

〈Rerease the Test mode〉
1. Push the "OFF" button.

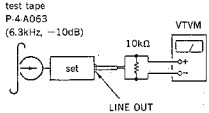
See the adjustment location from on page 22 for the adjustment.

DECK SECTION **0dB=0.775V**

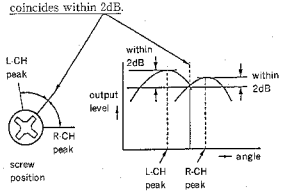
PB Head Azimuth Adjustment

Procedure:

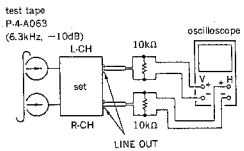
1. Put the set into the FWD PB mode.

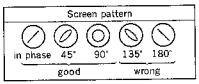


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.



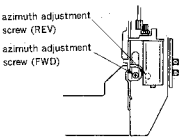
3. Check the phase in the PB mode.





4. Repeat the above adjustment for the REV PB mode.

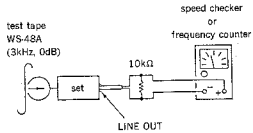
Adjustment Location : PB head



Capstan Motor Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.



Specification : Constant speed

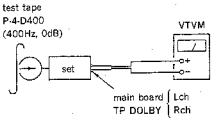
Speed checker	Frequency counter
−1.5 to −2.5%	2,955 to 3,075Hz

Adjustment Location : capstan motor volume

DOLBY Level Adjustment

Setting :

(Dolby NR) button : OFF
SEL (volume) button : Maximum
SEL (balance) button : Center
SEL (bass) button : Center
SEL (treble) button : Center



Procedure :

1. Put the set into the FWD PB mode.
2. Adjust RV301 (L-CH) and RV401 (R-CH) so that VTVM reading is $-4.7 \pm\frac{0}{4}$ dB (0.45 to 0.51V).

Adjustment Location : equalizer board

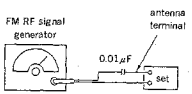
TUNER SECTION **0dB=1μV**

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting :

TUNER button (XR-430) : FM
FM button (XR-340) : FM

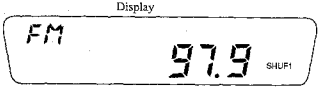


Carrier frequency: 97.9MHz
Output level : 22dB (12.6μV)
Mode : mono
Modulation : no modulation

Procedure :

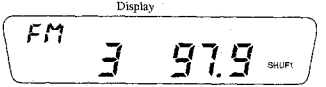
1. Set to the test mode. (See page 18.)
2. Push the TUNER button (XR-430) or FM button (XR-340) and set to FM.

Display



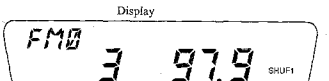
3. Push the preset 3 button.

Display



4. Adjust with the volume RV3 on TU1 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV3 so that put out light "0" indication and adjustment.

Display



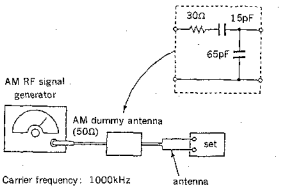
Specification : Stop sensitivity : 22dB±3dB

Note) "0" indication of display was align voltage of TP (SD).
TP (SD) voltage 0V →"0" light off
TP (SD) voltage 5V →"0" light on

AM Auto Scan/Stop Level Adjustment

Setting :

TUNER button (XR-430) : AM
AM button (XR-340) : AM

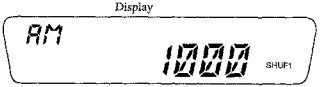


Carrier frequency: 1000kHz
30% amplitude modulation by 400Hz signal
Output level : 33dB (44.7μV)

Procedure :

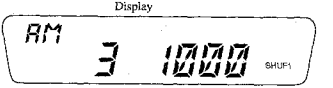
1. Set to the test mode. (See page 18.)
2. Push the TUNER button (XR-430) or AM button (XR-340) and set to AM.

Display



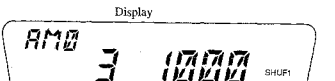
3. Push the preset 3 button.

Display



4. Adjust with the volume RV1 on TU1 so that the "AM" indication turns to "AM0" indication on the display window.
   But, in case of already indicated "AM0", turn the RV1 so that put out light "0" indication and adjustment.

Display



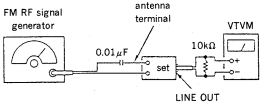
Specification : Stop sensitivity : 33dB±3dB

Note) "0" indication of display was align voltage of TP (SD).
TP (SD) voltage 0V →"0" light off
TP (SD) voltage 5V →"0" light on

High Cut Control Effect Adjustment

Setting :

TUNER button (XR-430) : FM
FM button (XR-340) : FM



Carrier frequency: 97.9MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation

Procedure :

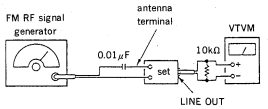
1. Tune the 97.9MHz.
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV2 on TU1 so that the output level is (A)−6dB then signal generator input set to −20dB.

Adjustment Location : main board (TU1)

FM Noise Focus Adjustment

Setting :

TUNER button (XR-430) : FM
FM button (XR-340) : FM



Carrier frequency: 97.9MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 10kHz, 75kHz deviation

Procedure :

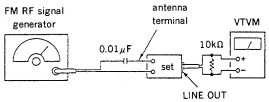
1. Tune the 97.9MHz.
2. The then output level is supposing that (B) dB.
3. Adjust with the volume RV5 on TU1 so that the output level is (B)−30dB then signal generator input set to 20dB.

Adjustment Location : main board (TU1)

FM Stereo Separation (60dB) Adjustment

Setting :

TUNER button (XR-430) : FM
FM button (XR-340) : FM



Carrier frequency: 97.9MHz
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main: 1kHz, 33.75kHz deviation (45%)
sub: 1kHz, 33.75kHz deviation (45%)
19kHz pilot: 7.5kHz deviation (10%)

Procedure :

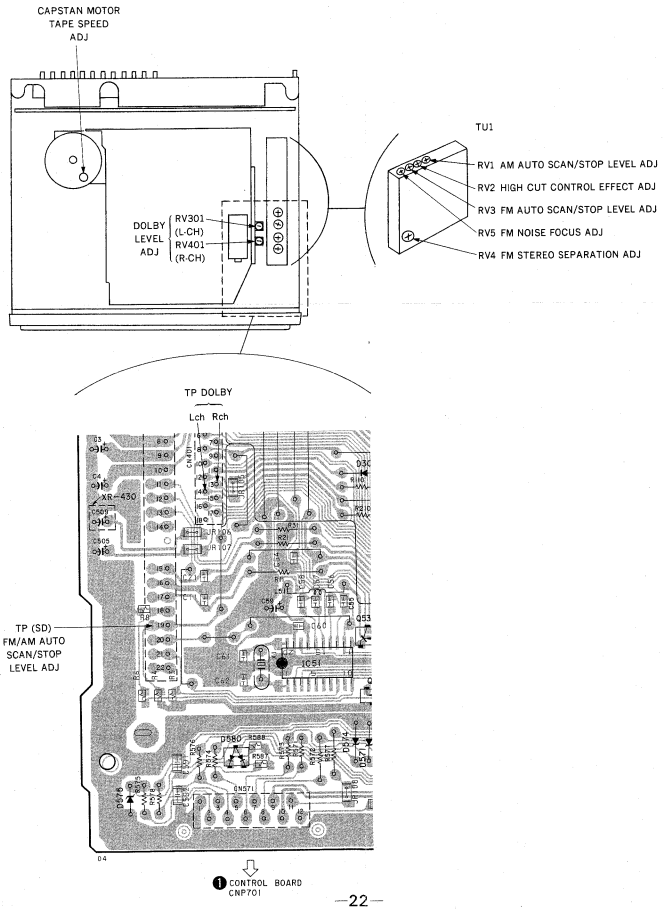
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 for minimum

L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.

Specification : Separation more than 30dB

Adjustment Location : main board (TU1)

Adjustment Location :



SECTION 5
DIAGRAMS

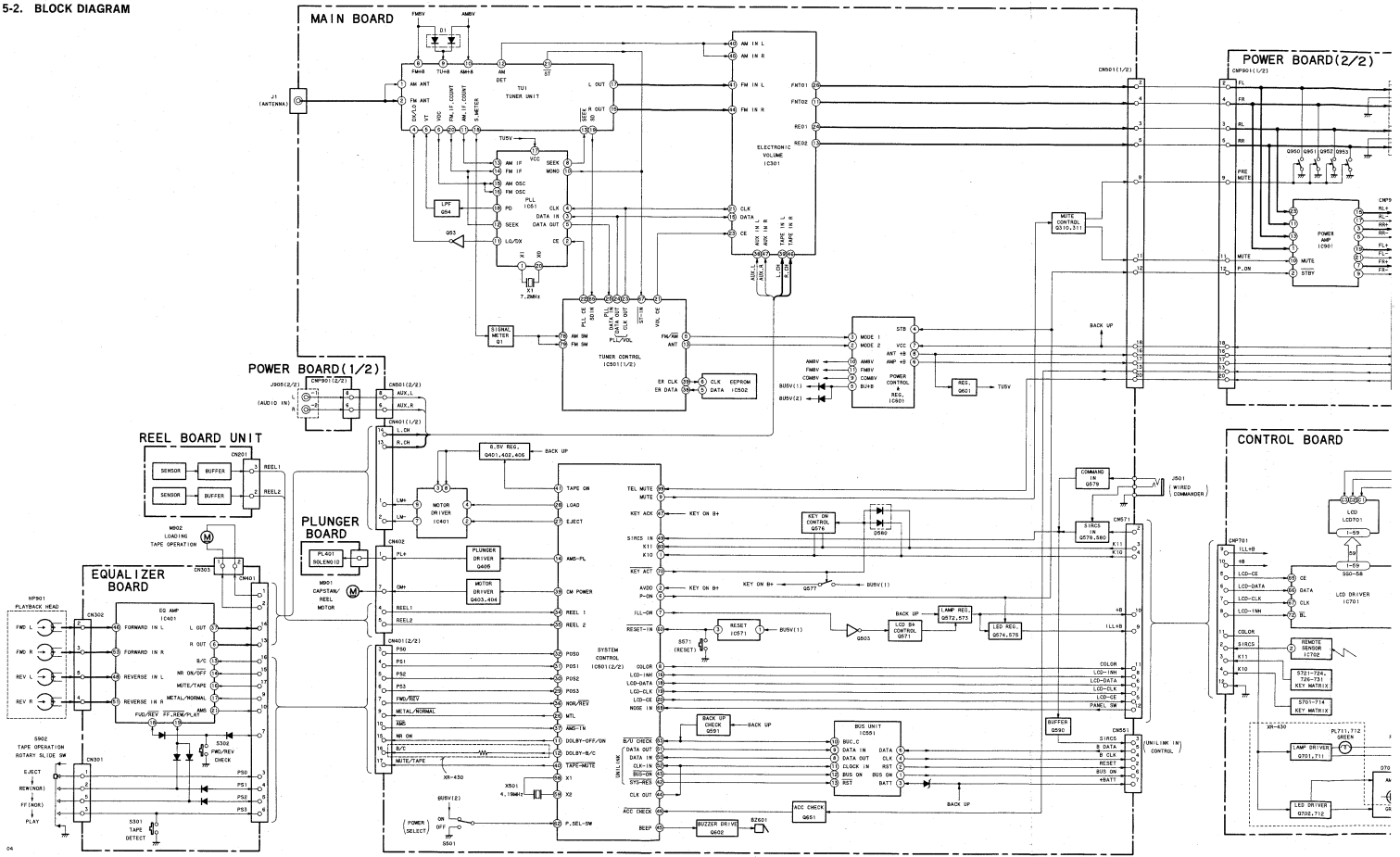
5-1. PIN FUNCTION

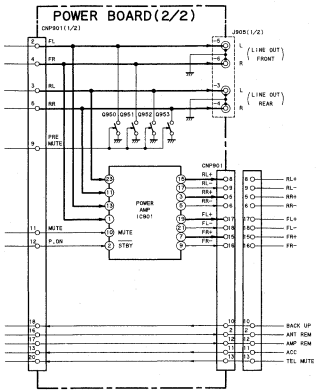
• IC501 μPD75518GF-177-3B9

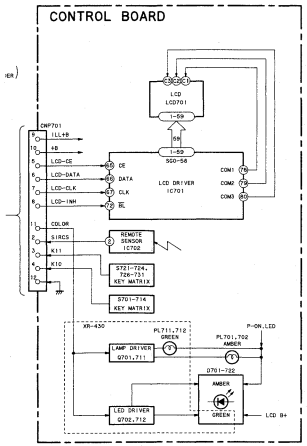
Pin No.	Signal	Pin Name	I/O	Pin Function
1	KEY-IN0	KI0	AD	KEY input
2	P-ON 5V (Ref)	AVDD	—	A/D reference voltage of KEY input.
3, 4	VDD	VDD	—	B/U 5V power
5	FM/$\overline{AM}$	FM/$\overline{AM}$	O	TUNER BAND select output
6	P-ON	P-ON	O	When the POWER ON to output the H. To ON for AUDIO and AMP-REM.
7	ILL-ON	ILL-ON	O	When the ACC ON to output the H. To ON for illumination and LCD.
8	COLOR	COLOR	O	Select the illumination color. H : Green, L : Yellow
9	MUTE	MUTE	O	MUTING output. MUTE ON : H output
10	AUX-MUTE	AUX-MUTE	O	Not use
11	DOLBY OFF/$\overline{ON}$	DOLBY-OFF/$\overline{ON}$	I/O	ON/OFF signal output of DOLBY NR. ON : L, OFF : H
12	DOLBY B/$\overline{C}$	DOLBY-B/$\overline{C}$	I/O	Select signal output of DOLBY NR. B : L, C : H
13	ANT-REM	MODE 2 (ANT)	O	ANTENNA REMOTE output of TUNER.
14	$\overline{PL}$	AMS-PL	O	TAPE PLUNGER control output
15	MD-POWER	CM POWER	O	TAPE MD POWER control output
16	LCD-INH	LCD-INH	O	Control output at SUB VOLUME IC304. Control at LCD DRIVER IC701.
17	—	NC	—	
18	LCD-DATA	LCD-DATA	O	
19	LCD-CLK	LCD-CLK	O	
20	LCD-CE	LCD-CE	O	
21	VOL-CE	VOL-CE	O	Control output at ELECTRONIC VOLUME IC301.
22	PLL-CE	PLL-CE	O	Control output at PLL IC51.
23	PLL-VOL-CLK	PLL. VOL-CLKOUT	O	Control output at ELECTRONIC VOLUME IC301.
24	PLL-VOL-DO	PLL. VOL-DATAOUT	O	Control output at PLL IC51.
25	PLL-VOL-DI	PLL-DATA-IN	I	Control input at PLL IC51.
26	METAL	MTL	I/O	METAL : H, NORMAL : L
27	LM-EJECT	EJECT	O	Control output at LOADING MOTOR. EJECT : H
28	LM-LOAD	LOAD	O	Control output at LOADING MOTOR. LOAD : H
29	POS 3	POS 3	I	TAPE POSITION detection input
30	POS 2	POS 2	I	
31	POS 1	POS 1	I	
32	POS 0	POS 0	I	
33	GND	GND	—	GND
34	REEL1	REEL 1	I	TAPE rotation detection input. Only one side input : Judge the no tape. Both no input : Judge the tape end.
35	REEL2	REEL 2	I	
36	N/$\overline{R}$	NOR/$\overline{REV}$	I	DIRECTION signal input of TAPE, H : Forward, L : Reverse
37	$\overline{AMS\ IN}$	$\overline{AMS\text{-}IN}$	I	AMS signal input. L : Tape sound is present, H : Tape sound is not present
38	E²P-SDA	EPROM-DATA	I/O	E²PROM data input/output
39	E²P-SCK	EPROM-CLOCK	O	E²PROM clock output
40	TAPE-MUTE	TA MUTE	O	Mute on for TAPE sound.
41	TAPE-ON	TAPE ON	O	Drive power output of TAPE.

Pin No.	Signal	Pin Name	I/O	Pin Function
42	SYSTEM RESET	$\overline{SYS\text{-}RES}$ UNI-L	O	For UNILINK output
43	BUS ON	$\overline{BUS\text{-}ON}$ UNI-L	O	
44	CLK-OUT	CLK-OUT	O	
45	BEEP	BEEP	O	Buzzer output
46	$\overline{ACC\text{-}CHECK}$	$\overline{ACC\text{-}CHECK}$	I	ACC detection input
47	KEY-ACKIN	KEY-ACK	I	When the this set is sleep mode, detect to pressing key.
48	$\overline{C\text{-}ALARM}$	$\overline{CAUTION\ ALARM}$	I	CAUTION ALARM ON/OFF. ON : L, OFF : H
49	$\overline{SIRCS\ IN}$	SIRCS-IN	I	Remote commander signal input
50	DATA IN	DATA-IN UNI. LINK	I	For UNILINK input/output
51	DATA OUT	DATA-OUT UNI. LINK	O	
52	CLK-IN	CLK-IN UNI-LINK	I	
53	B/U-CHECK	B/U-CHECK	I	B+ voltage detection input
54	GND	GND	—	GND
55, 56	—	XT1, XT2	—	Not use
57	GND	IC	—	GND
58	X1	X1	O	Crystal oscillator connect pin (4.19MHz)
59	X2	X2	I	
60	$\overline{RESET}$	RESET-IN	I	Microcomputer RESET input
61		— MTL-SEL	—	Not use
62	POW-SELECT	P. SEL-SW	I	POWER SELECT ON/OFF. ON : H, OFF : L
63	$\overline{A}$/G	$\overline{A}$/G	I	Illumination one color select input. L : AMBER, H : GREEN
64	ILL	ILL	I	Illumination two color select input. L : one color, H : two color.
65	SD IN	SD. IN	I	SD input
66	$\overline{TEL\text{-}MUTE}$	$\overline{TEL.\ MUTE}$	I	Telephone call detection pin. H : Mute −20dB audio signal
67	$\overline{STEREO\text{-}IN}$	$\overline{ST\text{-}IN}$	I	STEREO input. L : STEREO, H : MONO
68	$\overline{NSW}$	NOSE-IN	I	Nose presence detection
69	—	$\overline{AM\ ON}$	—	Not use
70	$\overline{KEY\text{-}ACTIVE}$	$\overline{KEY\text{-}ACTIVE}$	O	KEY ACTIVE output
71	AUDIO SEL 1	AUD. SEL. 1	—	Not use
72	AUDIO SEL 2	AUD. SEL. 0	—	Not use
73	A/D GND	ANALOG. GND	—	GND
74	PJ1	PJ1	AD	B+(+5V)
75	PJ0	PJ0	AD	B+(+5V)
76	DEST-SEL1	DESTSEL 1	AD	B+(+5V)
77	DEST-SEL0	DESTSEL 0	AD	GND (XR-340), B+(+5V) (XR-430)
78	AM-S-METER	AM S METER IN	AD	AM band signal meter A/D change input
79	FM-S-METER	FM S METER IN	AD	FM band signal meter A/D change input
80	KEY-IN1	KI1	AD	KEY input

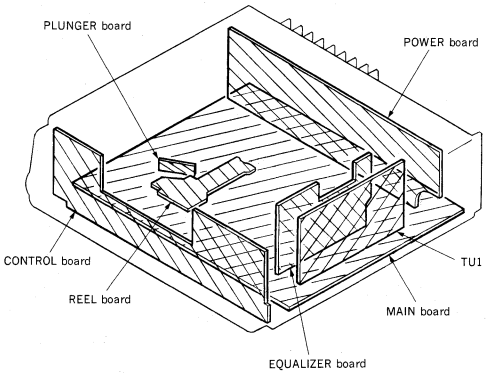
5-2. BLOCK DIAGRAM







5-3. CIRCUIT BOARDS LOCATION



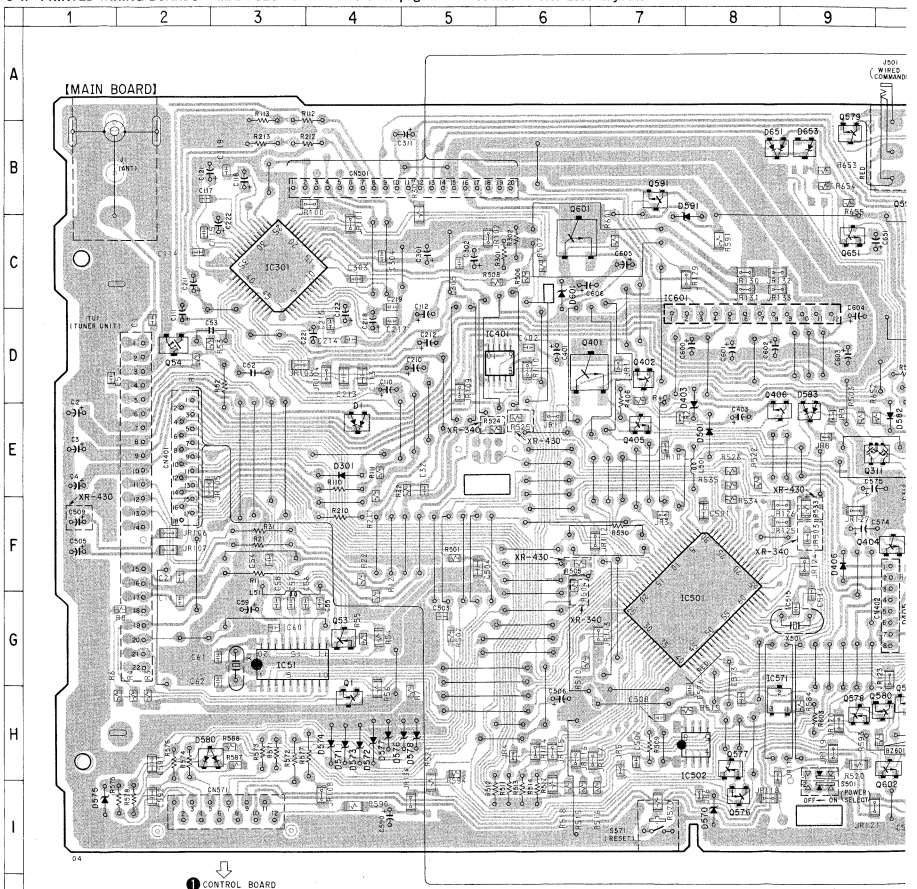
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	E-4	IC301	C-3
D301	E-4	IC401	D-6
(D301)	H-22	(IC401)	H-20
(D302)	H-22	IC501	G-8
(D303)	G-22	IC502	H-8
D310	F-10	IC551	C-10
D311	F-10	IC571	H-8
D403	E-8	IC601	D-8
D405	G-10	IC901	E-21
D406	F-9		
D501	E-8	Q1	H-4
D551	B-11	Q53	G-4
D552	B-11	Q54	D-2
D553	B-10	Q310	F-10
D554	B-10	Q311	E-10
D570	I-8	Q401	D-6
D571	H-4	Q402	D-7
D572	H-4	Q403	F-10
D573	H-4	Q404	F-10
D574	H-4	Q405	E-7
D575	I-1	Q406	E-8
D576	H-5	Q503	H-10
D577	H-4	Q571	H-10
D578	H-5	Q572	H-10
D579	B-9	Q573	H-11
D580	H-2	Q574	I-10
D582	H-10	Q575	I-11
D583	E-9	Q576	I-8
D590	B-10	Q577	H-8
D591	C-7	Q578	H-9
D601	C-6	Q579	H-11
D651	B-8	Q580	H-10
D653	B-9	Q590	B-10
D901	D-22	Q591	B-7
D911	D-20	Q601	C-6
D912	D-23	Q602	H-10
D921	D-20	Q651	C-9
D922	D-20	Q950	E-16
D931	D-17	Q951	D-16
		Q952	E-15
IC51	G-3	Q953	D-15

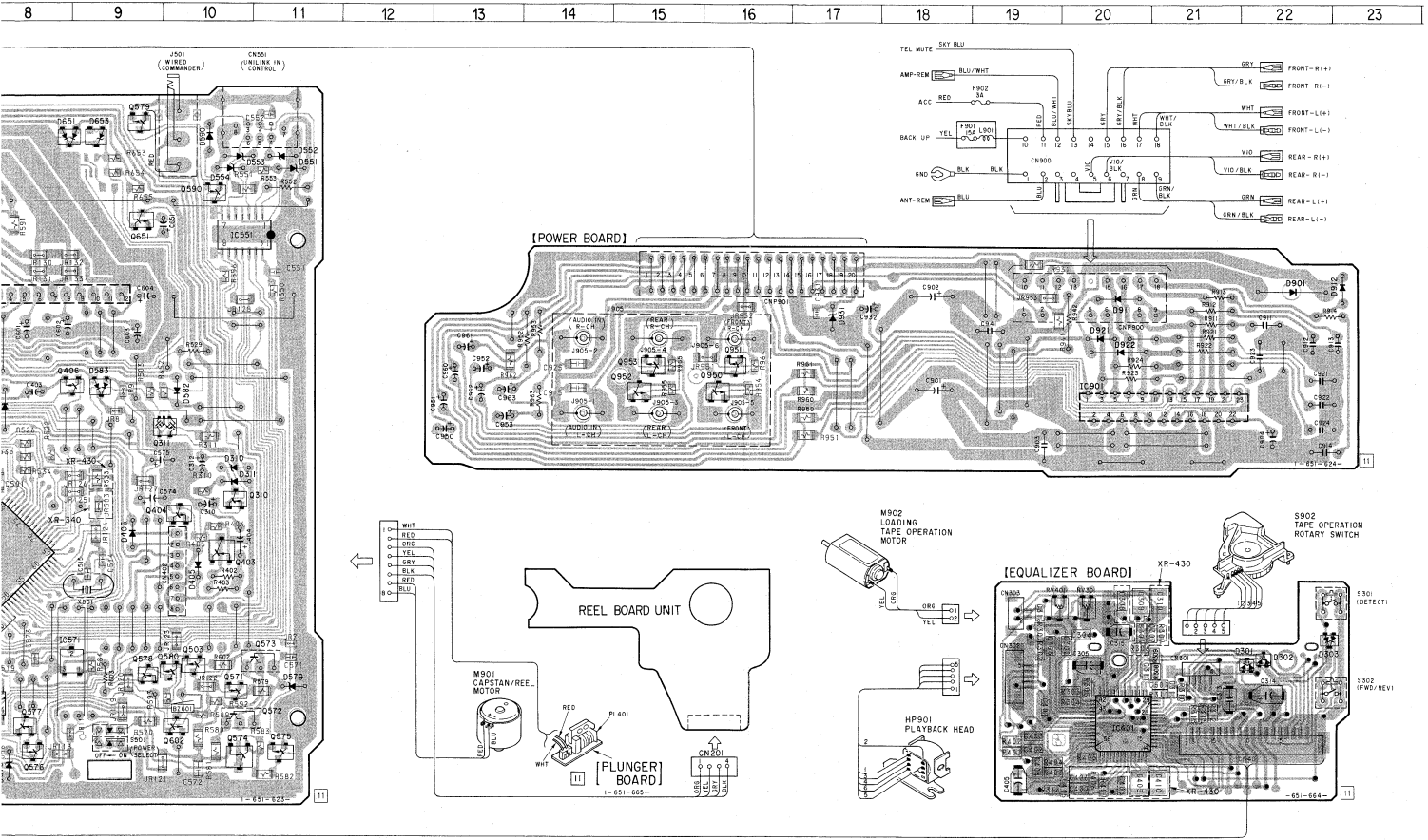
( ): EQUALIZER board

Note:
- ○— : parts extracted from the component side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern on the rear side.

5-4. PRINTED WIRING BOARDS —MAIN SECTION— ● Refer to page 51 for Semiconductor Lead Layouts.



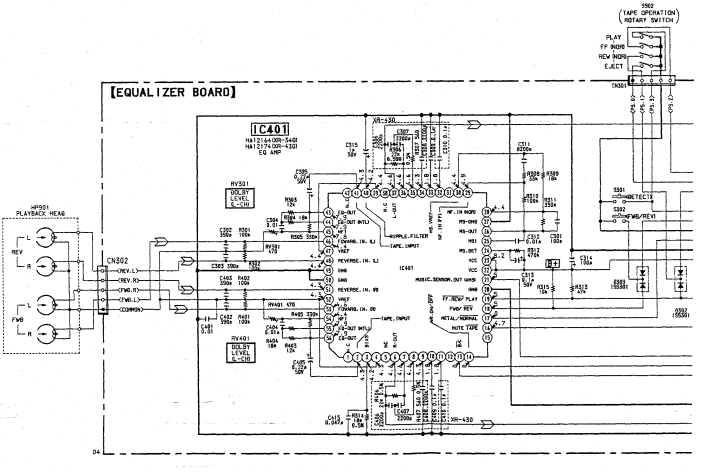
(See page 43, 45)

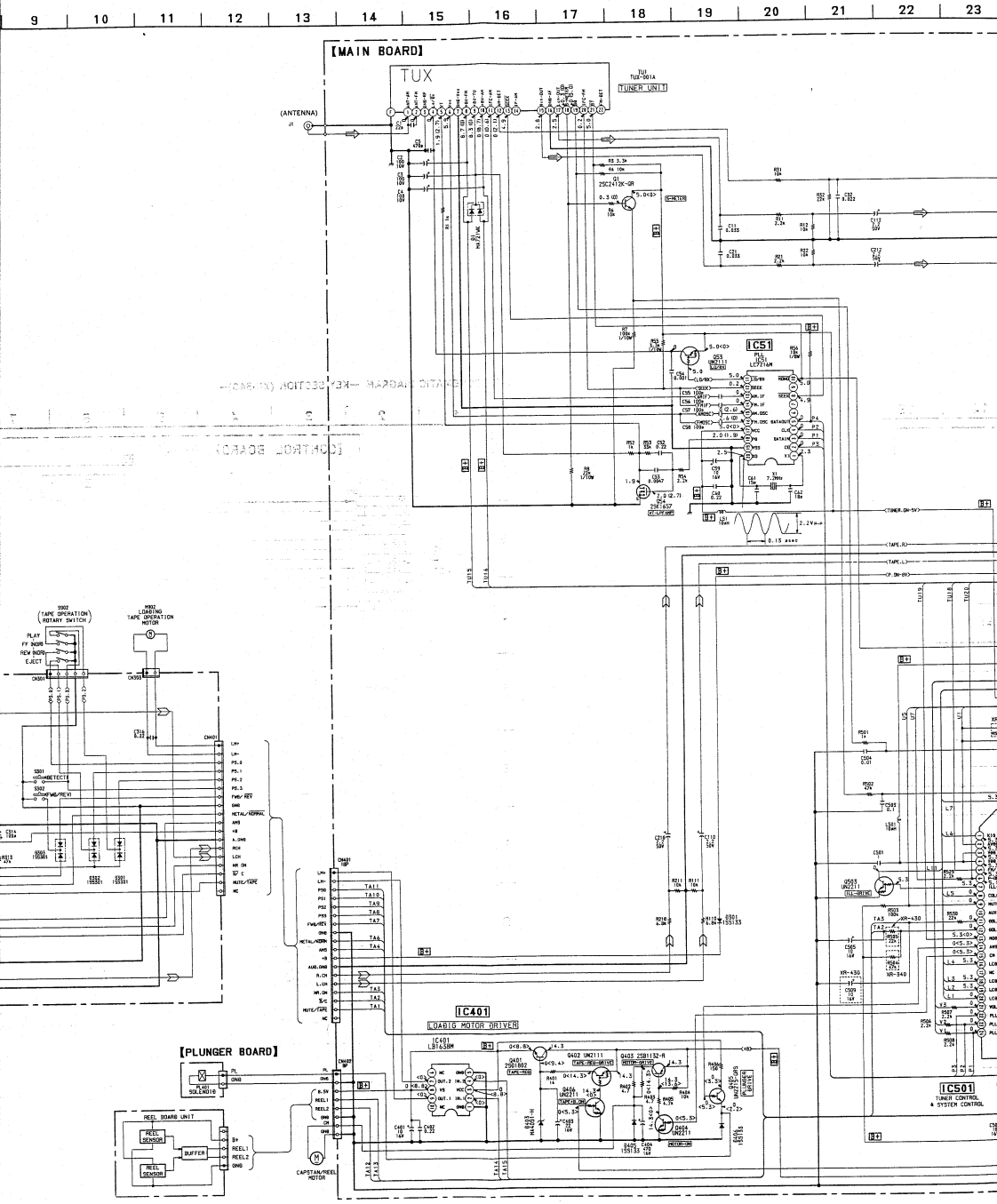

8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
J501 (WIRED COMMANDER)
CN551 (UNILINK IN CONTROL)
IC551
XR-430
XR-340
TEL MUTE
SKY BLU
AMP-REM
BLU/WHT
ACC
RED
F902 3A
BACK UP
YEL
F901 2A
L901
GND
BLK
ANT-REM
BLU
CN900
GRY
GRY/BLK
WHT
WHT/BLK
VIO
VIO/BLK
GRN
GRN/BLK
FRONT-R(+)
FRONT-R(-)
FRONT-L(+)
FRONT-L(-)
REAR-R(+)
REAR-R(-)
REAR-L(+)
REAR-L(-)
[POWER BOARD]
CNP801
CNP802
J905
J951
IC901
D901
D911
D921
D931
Q951
Q952
Q953
Q990
1-651-624-
WHT
RED
ORG
YEL
GRY
BLK
RED
BLU
REEL BOARD UNIT
M901 CAPSTAN/REEL MOTOR
PL401
[PLUNGER] BOARD
CN201
1-651-665-
M902 LOADING TAPE OPERATION MOTOR
HP901 PLAYBACK HEAD
[EQUALIZER BOARD]
S902 TAPE OPERATION ROTARY SWITCH
S301 (DETECT)
S302 (FWD/REV)
IC401
1-651-664-
1-651-623-

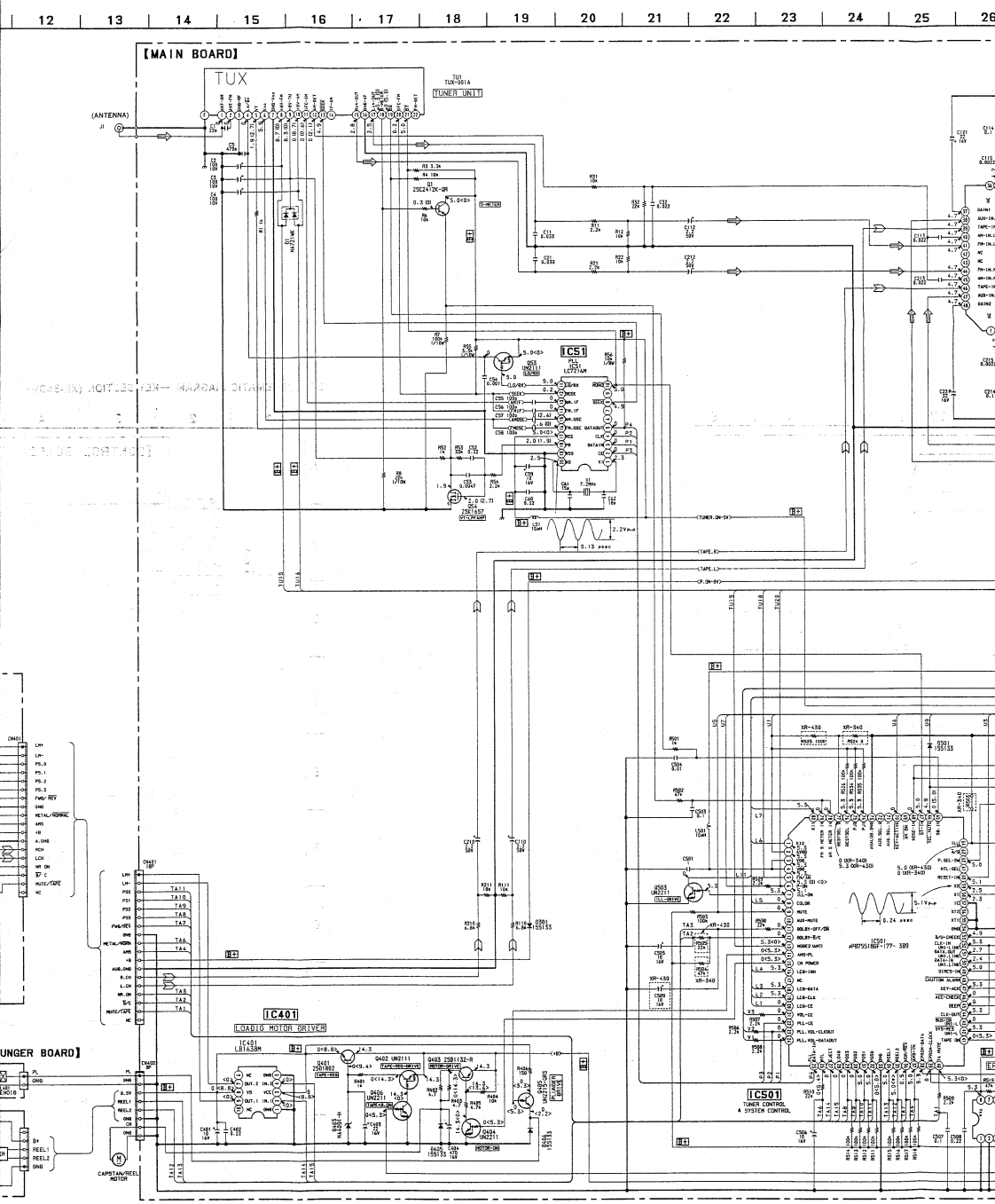
5-5. SCHEMATIC DIAGRAM —MAIN SECTION— • Refer to page 49 for IC Block Diagrams.

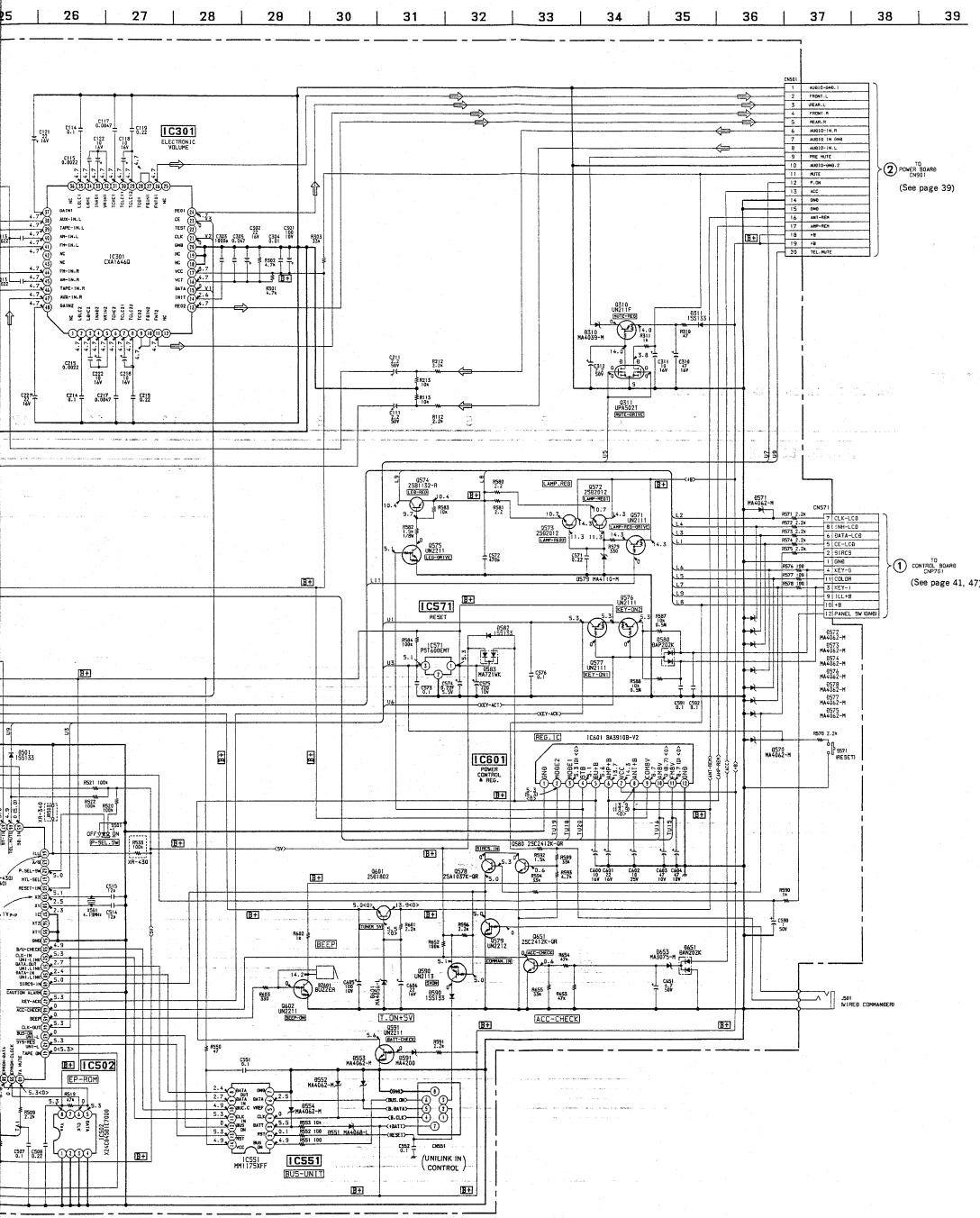
Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
  ( ): AM
  < >: PB
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB

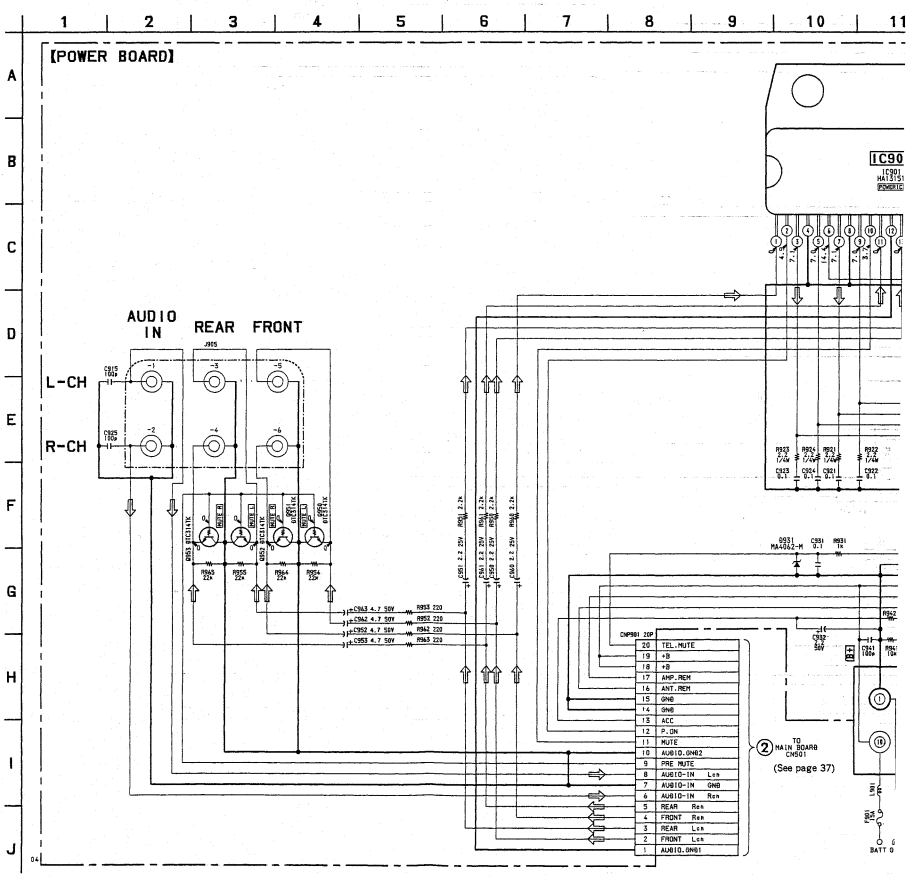


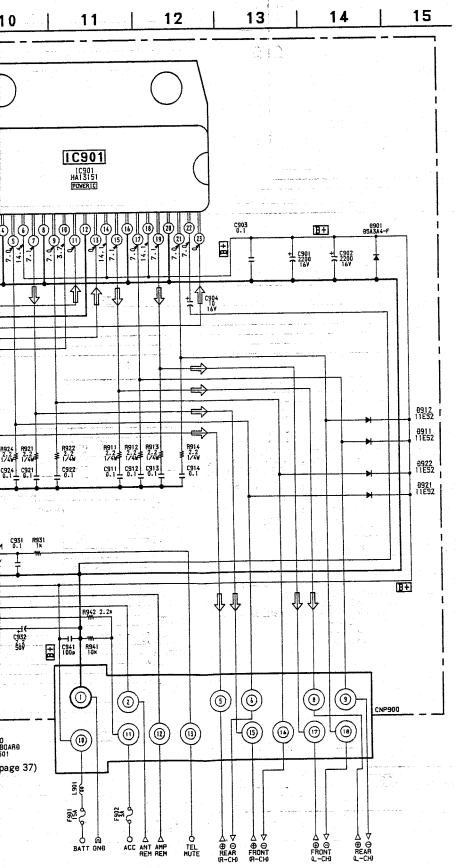

【MAIN BOARD】
TUX
TUX-001A
TUNER UNIT
(ANTENNA)
IC51
IC401
LOADING MOTOR DRIVER
IC501
TUNER CONTROL & SYSTEM CONTROL
【PLUNGER BOARD】
SOLENOID
REEL BOARD UNIT
REEL SENSOR
BUFFER
CAPSTAN/REEL MOTOR
S902
TAPE OPERATION ROTARY SWITCH
M902
LOADING TAPE OPERATION MOTOR
PLAY
FF (NOR)
REW (NOR)
EJECT

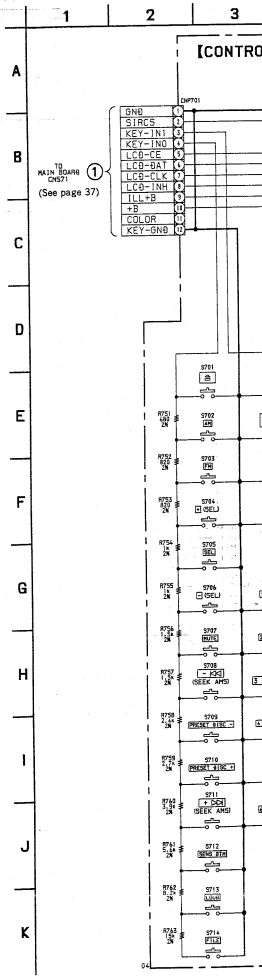

【MAIN BOARD】
TUX
TU1
TUX-001A
TUNER UNIT
(ANTENNA)
J1
IC51
LC72146M
IC401
LOADING MOTOR DRIVER
LB1638M
IC501
TUNER CONTROL
& SYSTEM CONTROL
【TUNER BOARD】
CAPSTAN/REEL
MOTOR


25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
IC301
ELECTRONIC VOLUME
IC301
CXA1644Q
CN501
1 AUDIO-GND.1
2 FRONT-L
3 REAR-L
4 REAR-R
5 FRONT-R
6 AUDIO-IN-R
7 AUDIO-IN GND
8 AUDIO-IN-L
9 PRE MUTE
10 AUDIO-GND.2
11 MUTE
12 P.ON
13 ACC
14 GND
15 GND
16 ANT-KEN
17 AMP-KEN
18 +B
19 +B
20 TEL MUTE
TO POWER BOARD CN901
(See page 39)
TO CONTROL BOARD CN701
(See page 41, 47)
1 CLK-LCD
2 INH-LCD
3 DATA-LCD
4 CE-LCD
5 SIRCS
6 GND
7 KEY-0
8 COLOR
9 KEY-1
10 ILL+B
11 +B
12 PANEL SW COMB
IC571
RESET
IC601
POWER CONTROL & REG.
REG.IC
IC601 BA3910B-V2
IC502
EP-ROM
IC551
BUS-UNIT
(CSS)
MM1175AFF
UNILINK IN CONTROL
BEEP
ACC-CHECK
T.ON+5V
WIRED COMMANDER
P-SEL.SW
XR-430
OFF/TAPE ON
RESET
KEY-ACT
KEY-ACK
BEEP-ON
ACC-CHECK
CAUTION ALARM
KEY-ACK
SCC-CHECK
BEEP
CLK-OUT
DATA-OUT
SYS-RES
TAPE-SW
SIRCS
REG.IC
IC601 BA3910B-V2
LAMP-REG
LAMP-REG-CTL
KEY-IN1
KEY-IN2
KEY-ON1
KEY-ON2
KEY-ACT
KEY-ACK
ANT-HEN
AMP-HEN
ACC-CHECK
BEEP-ON
T.ON+5V
SIRCS-IN
COMMAN.IN
DIMMER
ILL+B
+B
+5V
+3.3V
+8V
+9V
+12V
-8V
-9V
-12V
-B
GND
RESET
CLK-LCD
INH-LCD
DATA-LCD
CE-LCD
SIRCS
KEY-0
KEY-1
COLOR
PANEL SW COMB
TEL MUTE
MUTE
P.ON
ACC
ANT-KEN
AMP-KEN
PRE MUTE
REAR-R
REAR-L
FRONT-R
FRONT-L
AUDIO-GND.1
AUDIO-GND.2
AUDIO-IN-R
AUDIO-IN-L
AUDIO-IN GND

5-6. SCHEMATIC DIAGRAM —POWER SECTION—



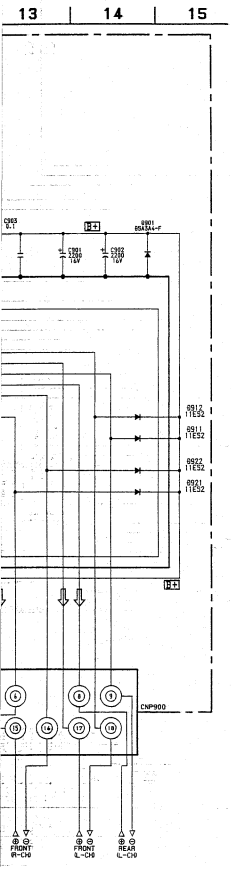


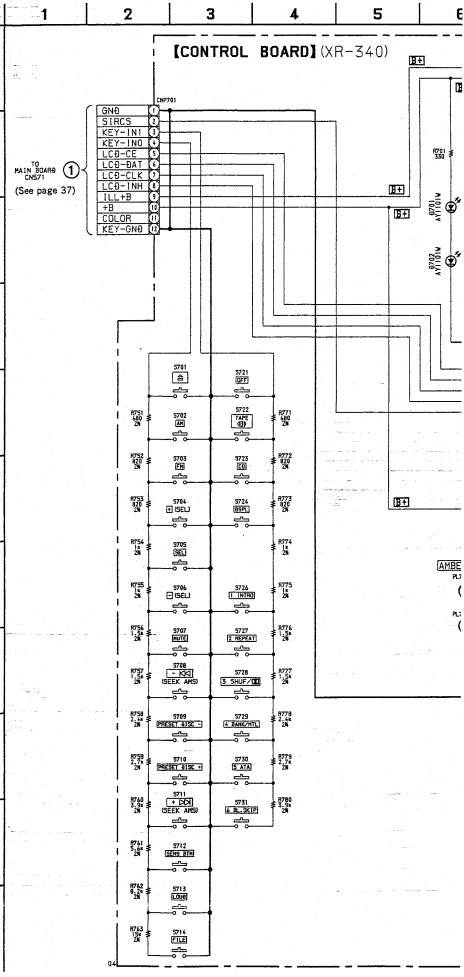


Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

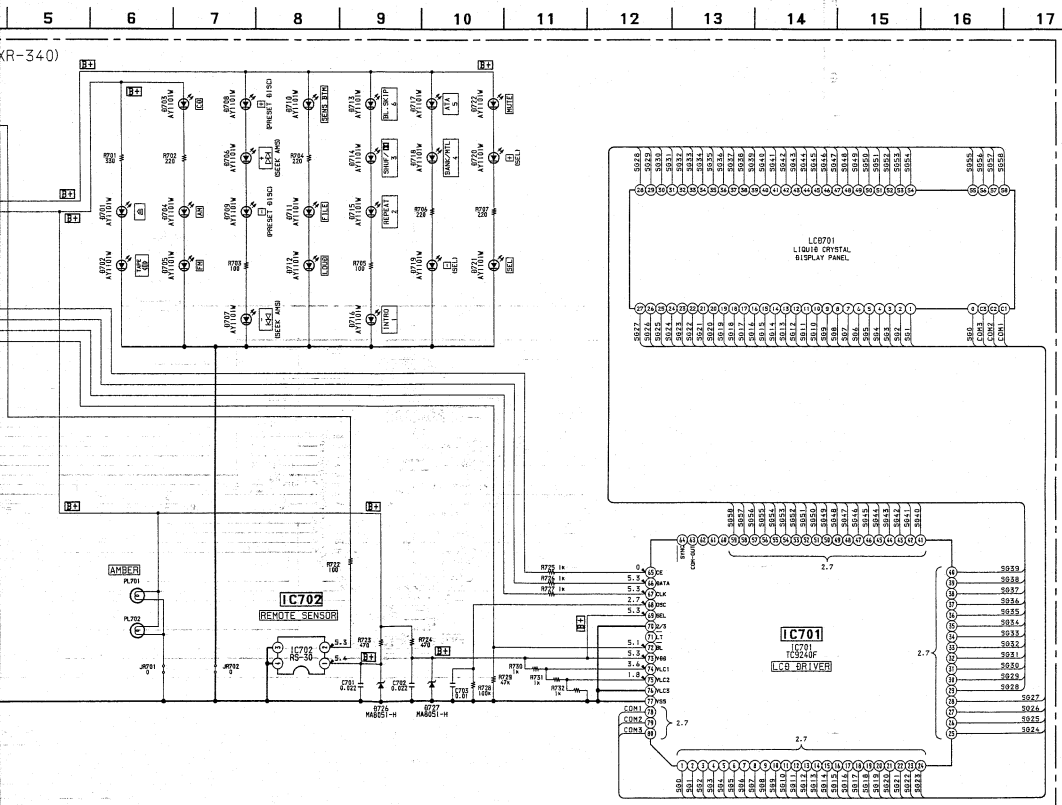
5-7. SCHEMATIC DIAGRAM —KEY SECTION (XR-340)—



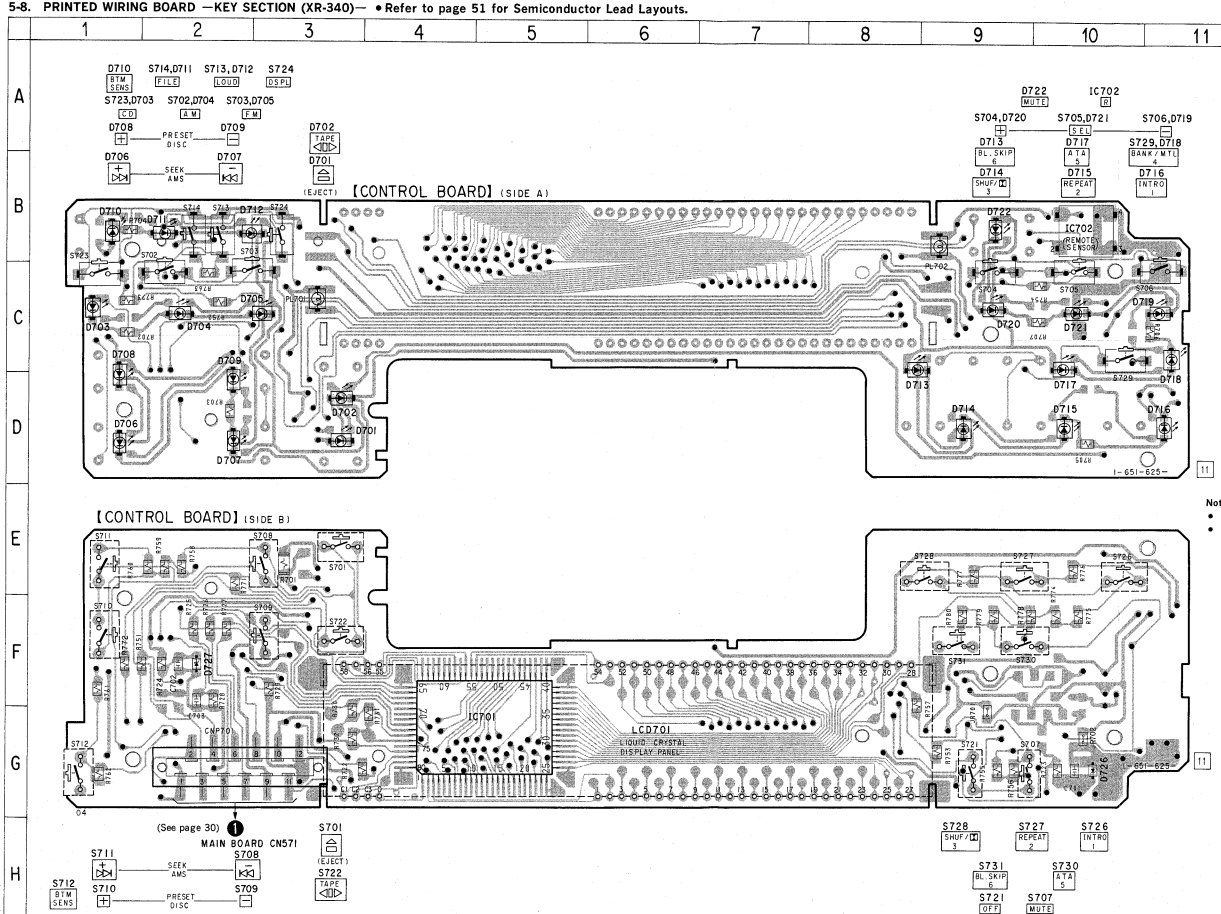


Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM


5
6
7
8
9
10
11
12
13
14
15
16
17
(R-340)
LCD701
LIQUID CRYSTAL
DISPLAY PANEL
IC702
REMOTE SENSOR
RS-30
IC701
IC701
TC9240F
LCD DRIVER
AMBER
PL701
PL702
MA8051-H
MA8051-H
COM1
COM2
COM3

5-8. PRINTED WIRING BOARD —KEY SECTION (XR-340)— • Refer to page 51 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location
D701	D-3
D702	D-3
D703	C-1
D704	C-2
D705	C-3
D706	D-1
D707	D-2
D708	D-1
D709	D-2
D710	B-1
D711	B-2
D712	B-2
D713	C-8
D714	D-9
D715	D-10
D716	D-11
D717	C-10
D718	C-11
D719	C-11
D720	C-9
D721	C-10
D722	B-9
D726	G-10
D727	F-2
IC701	G-5
IC702	B-10

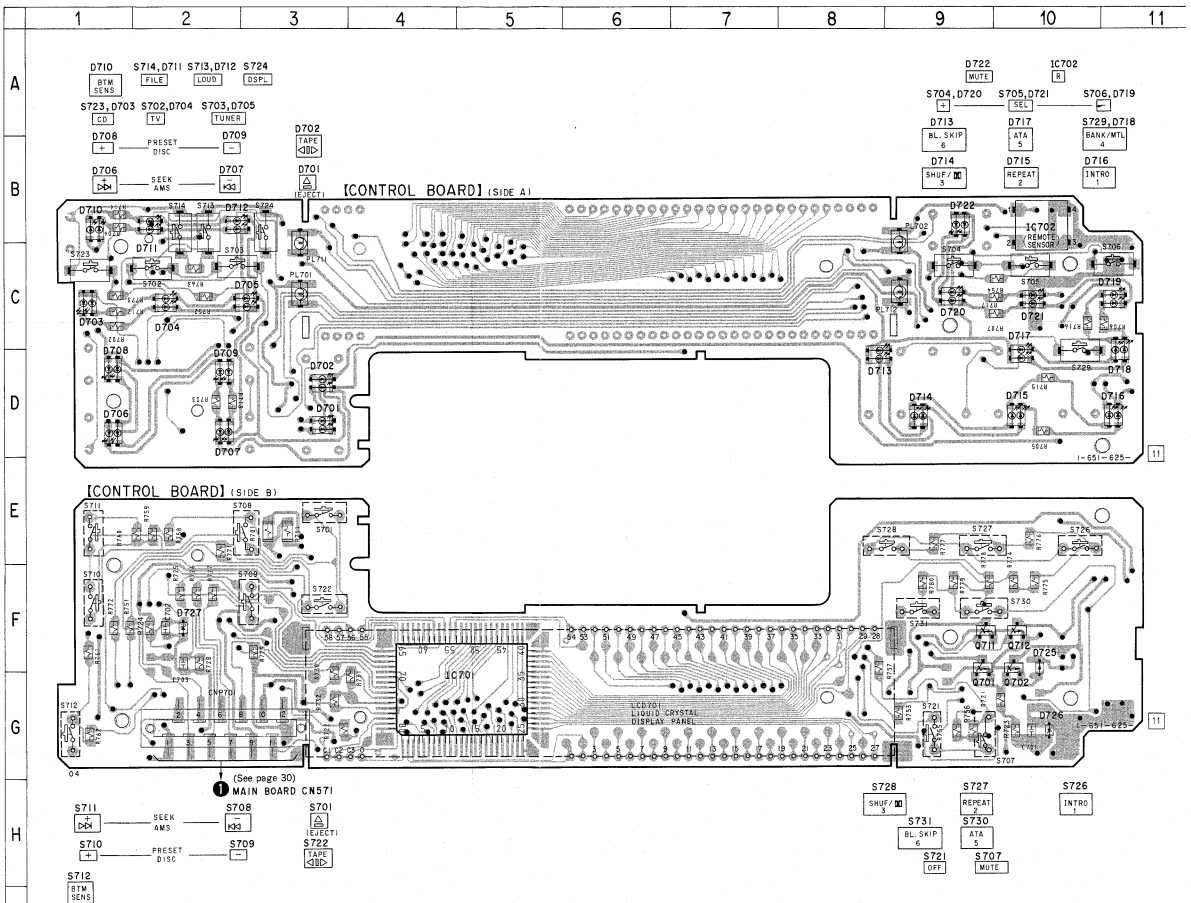
Note :
- ● : Through hole.
- ▨ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)

5-9. PRINTED WIRING BOARD —KEY SECTION (XR-430)— • Refer to page 51 for Semiconductor Lead Layouts.

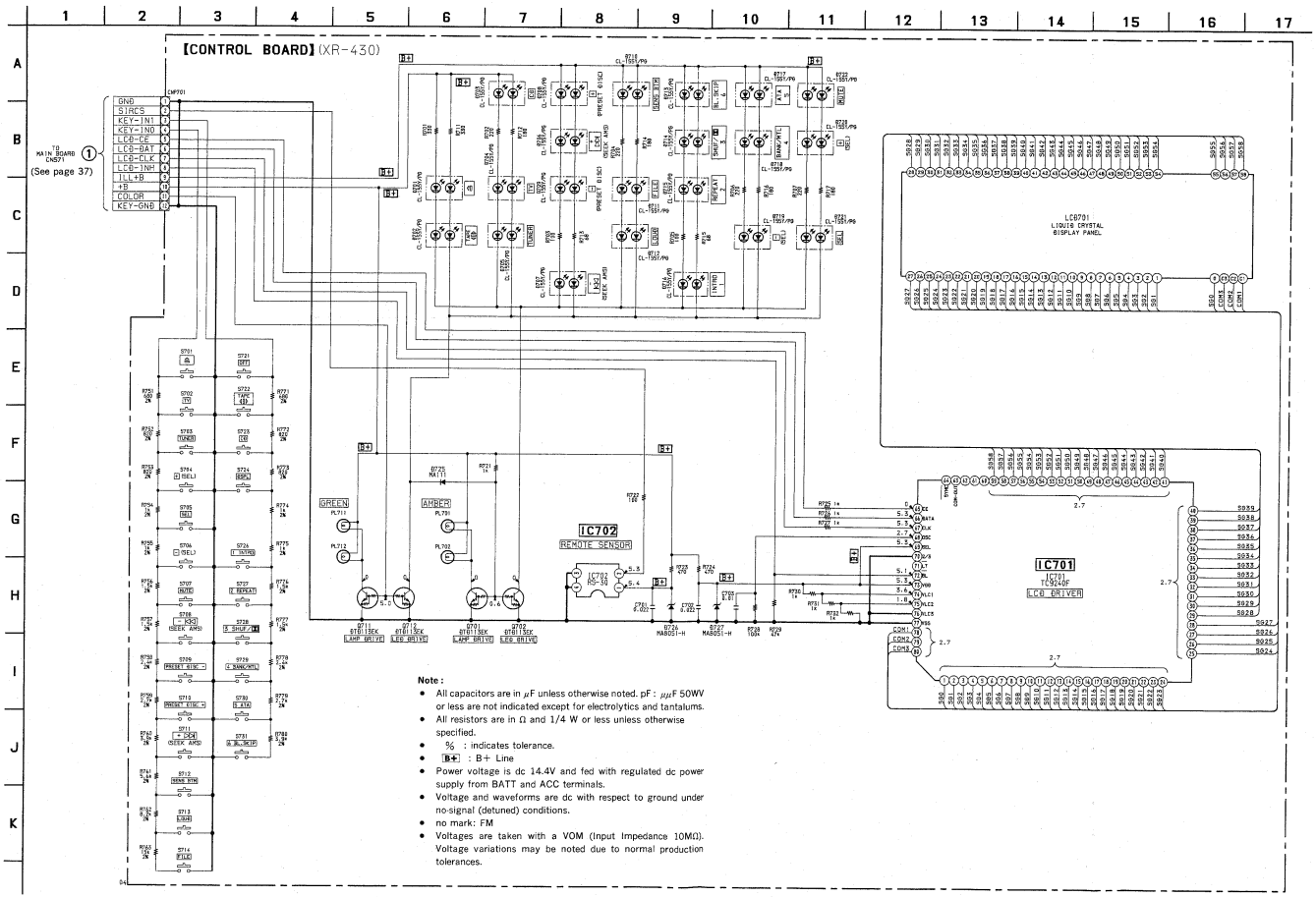
• Semiconductor Location

Ref. No.	Location
D701	D-3
D702	D-3
D703	C-1
D704	C-2
D705	C-3
D706	D-1
D707	D-2
D708	D-1
D709	D-2
D710	B-1
D711	B-2
D712	B-2
D713	D-8
D714	D-9
D715	D-10
D716	D-11
D717	D-10
D718	D-11
D719	C-11
D720	C-9
D721	C-10
D722	B-9
D725	F-10
D727	F-2
IC701	G-5
IC702	B-2
Q701	F-9
Q702	F-10
Q711	F-9
Q712	F-10

Note :
- ● : Through hole.
- ▨ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)



5-10. SCHEMATIC DIAGRAM —KEY SECTION (XR-430)—

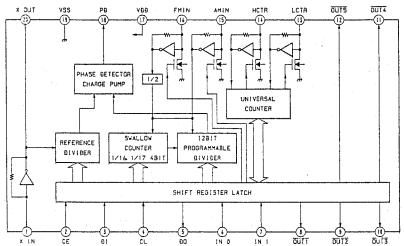


Note :

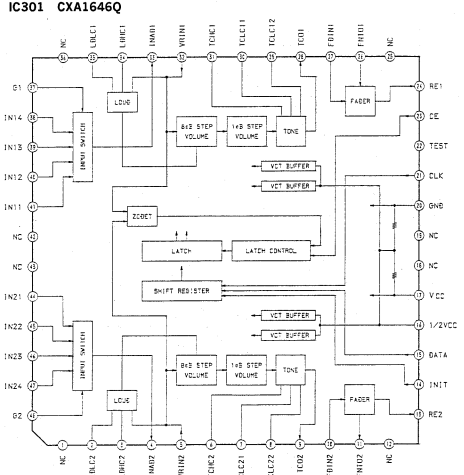
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

• **IC Block Diagrams**

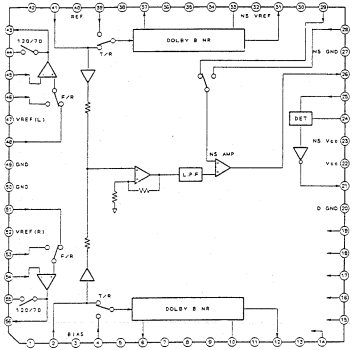
IC51 LC7216



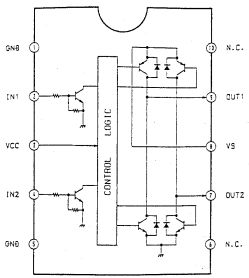
IC301 CXA1646Q



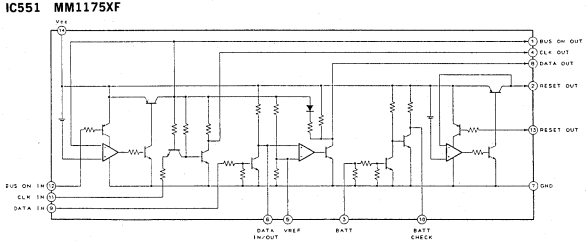
IC401 (EQUALIZER BOARD) HA12174 (XR-430)
HA12164 (XR-340)



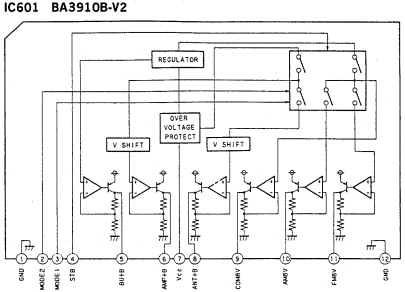
IC401 (MAIN BOARD) LB1638M



IC551 MM1175XF



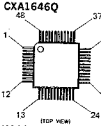
IC601 BA3910B-V2



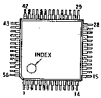
5-11. SEMICONDUCTOR LEAD LAYOUTS

BA3910B-V2

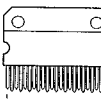
CXA1646Q



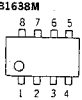
HA12164
HA12174



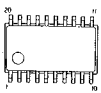
HA13151



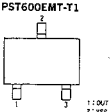
LB1638M



LC7216M

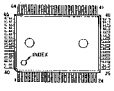


PST600EMT-T1



RS-20

TC9240F
μPD75518GF-177-3B9



MM1175XFF

X24C04S8IC7000

DTC314TK04
DTD113EK
UN211F-TX
UN2111
UN2211
UN2212
UN2213
2SA1162-G
2SC1623-L5L6

UPA502T-T1

(1) Tr1 OUT
(2) Tr2 OUT
(3) Tr2 IN
(4) GND
(5) Tr1 IN

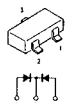
2SB1115A-YQ

2SD1802-S

2SD2012

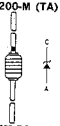
2SK1657-T1B

DAN202K
MA141WK
MA721WK-(TX)

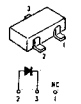


MA111
MA8051-H

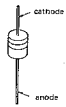
MA4039-M (TA)
MA4056-L (TA)
MA4062-M (TA)
MA4068-L (TA)
MA4091-H (TA)
MA4110-M (TA)
MA4200-M (TA)



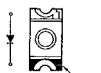
RD7.5M-B2



1SS133
11ES2



AY1101W-88



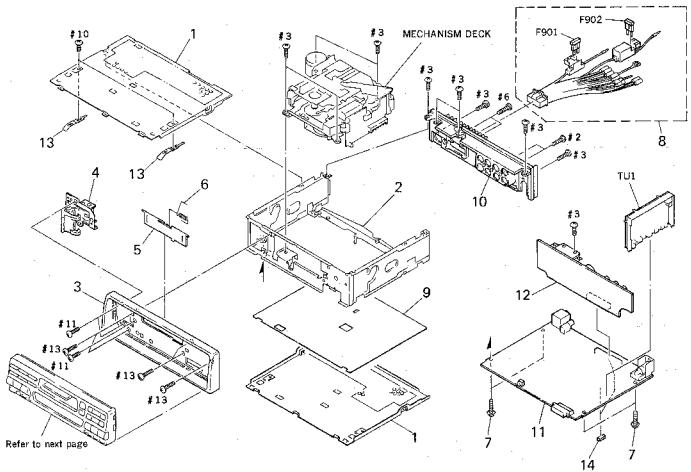
CL-155Y/PG-CD

SECTION 6
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (BED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

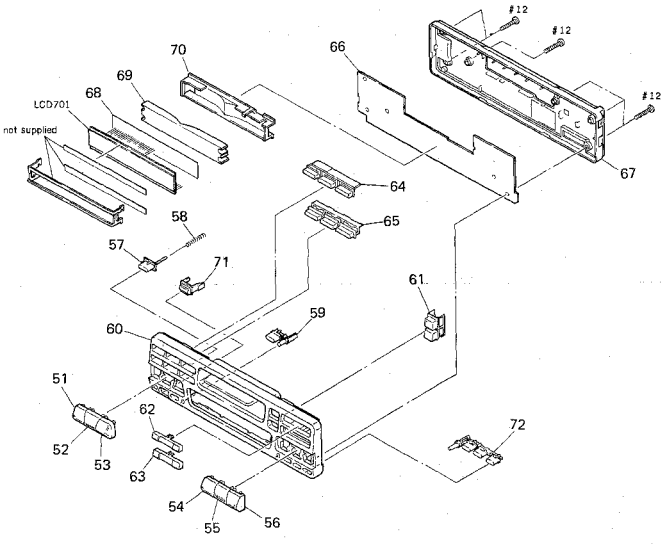
6-1. CHASSIS SECTION



Ref.No.	Part No.	Description	Remark
1	3-904-249-21	COVER	
+ 2	X-3367-885-1	CHASSIS ASSY	
3	3-909-540-01	PANEL, SUB	
4	X-3367-638-1	LOCK ASSY	
5	3-910-464-01	DOOR, CASSETTE (XR-430)	
5	3-910-464-11	DOOR, CASSETTE (XR-340)	
6	3-913-676-01	SPRING (C DOOR), TORSION	
7	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
8	1-765-681-11	CORD (WITH CONNECTOR)	
+ 9	3-912-609-11	INSULATOR	

Ref.No.	Part No.	Description	Remark
* 10	3-909-536-01	HEAT SINK	
* 11	A-3298-002-A	MAIN BOARD, COMPLETE (XR-430)	
* 11	A-3298-005-A	MAIN BOARD, COMPLETE (XR-340)	
* 12	A-3298-001-A	POWER BOARD, COMPLETE	
* 13	3-386-597-01	PLATE, LOCK	
14	9-911-841-XX	CUSHION, CASSETTE LID	
F901	1-533-326-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A)	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) (15A)	
+ TU1	A-3282-003-A	TUNER UNIT (TUX-001A)	

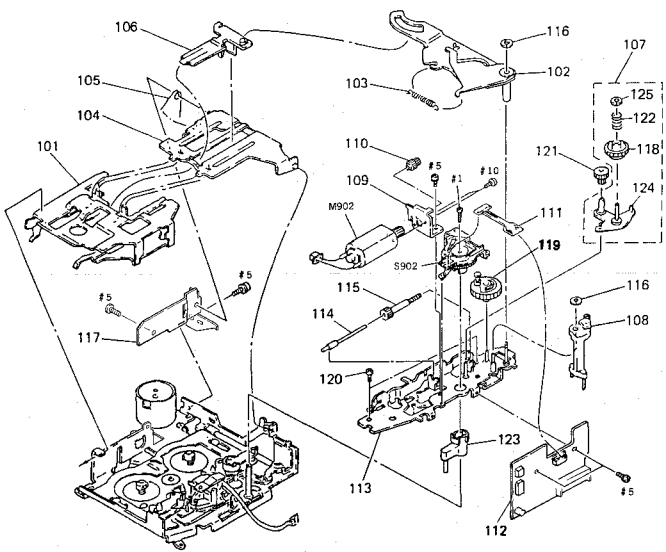
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-909-316-01	BUTTON (-)	
52	3-909-317-01	BUTTON (SELECT)	
53	3-909-318-01	BUTTON (+)	
54	3-909-319-01	BUTTON (C) (XR-430)	
54	3-909-319-21	BUTTON (C) (XR-340)	
55	3-909-320-01	BUTTON (B) (XR-430)	
55	3-909-320-21	BUTTON (B) (XR-340)	
56	3-909-321-11	BUTTON (E)	
57	3-904-245-11	BUTTON (RELEASE)	
58	3-904-193-01	SPRING (RELEASE)	
59	3-904-243-11	BUTTON (MUTE)	
60	3-909-532-01	PANEL, FRONT (XR-430)	
60	3-909-532-11	PANEL, FRONT (XR-340)	
61	3-909-537-01	BUTTON (EJECT)	

Ref. No.	Part No.	Description	Remark
62	3-909-538-01	BUTTON (S/A)	
63	3-909-539-01	BUTTON (M/D)	
64	3-909-534-01	BUTTON (A)	
65	3-909-535-01	BUTTON (B)	
* 66	A-3298-009-A	CONTROL BOARD, COMPLETE (XR-430)	
* 66	A-3298-007-A	CONTROL BOARD, COMPLETE (XR-340)	
67	3-909-533-01	PANEL, FRONT BACK	
* 68	3-912-008-01	REFLECTOR, SHEET	
69	3-389-673-01	PLATE (M:LCD), LIGHT GUIDE	
* 70	3-913-756-01	HOLDER (LCD)	
71	3-389-669-01	FILTER (RAY CATCHER)	
72	3-389-670-01	BUTTON (FILE)	
LCD701	1-810-461-11	DISPLAY PANEL, LIQUID CRYSTAL	

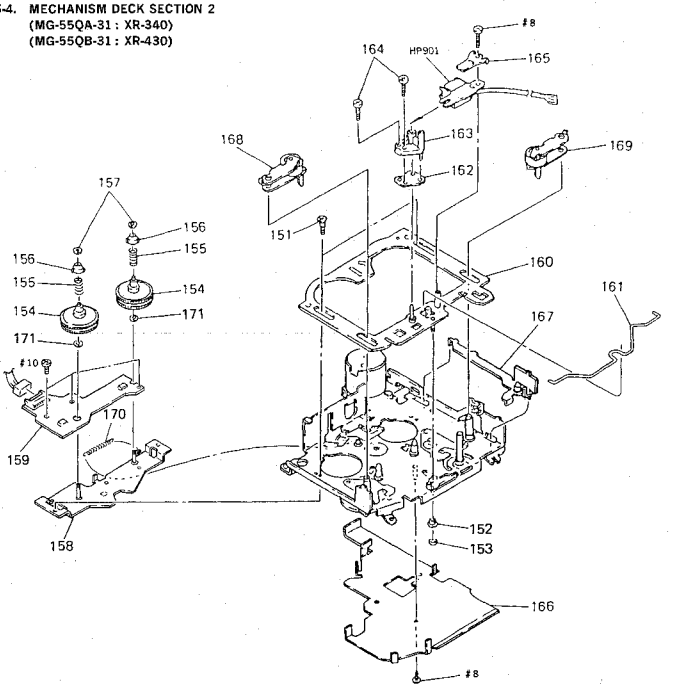
6-3. MECHANISM DECK SECTION 1
(MG-55QA-31 : XR-340)
(MG-55QB-31 : XR-430)



Ref.No.	Part No.	Description	Remark
* 101	3-344-103-21	HOUSING, CASSETTE	
* 102	X-3344-121-1	ARM ASSY, SUCTION	
103	3-344-216-01	SPRING (SUCTION ARM), TENSION	
* 104	X-3362-262-1	HANGER (F) ASSY, HOUSING	
105	3-344-113-03	SPRING	
106	3-344-118-01	CATCHER	
* 107	A-3239-954-A	GEAR ASSY, DRIVING ARM	
* 108	3-375-458-01	ARM (M), REVERSE	
* 109	X-3344-142-2	BRACKET (F) ASSY, MOTOR	
110	3-344-281-01	GEAR (A), DRIVING	
111	1-685-519-12	ROTARY SWITCH FLEXIBLE BOARD	
* 112	A-3222-724-A	EQUALIZER BOARD, COMPLETE (XR-340)	
* 112	A-3222-725-A	EQUALIZER BOARD, COMPLETE (XR-430)	
* 113	X-3362-260-3	CHASSIS (F) ASSY, MCU	

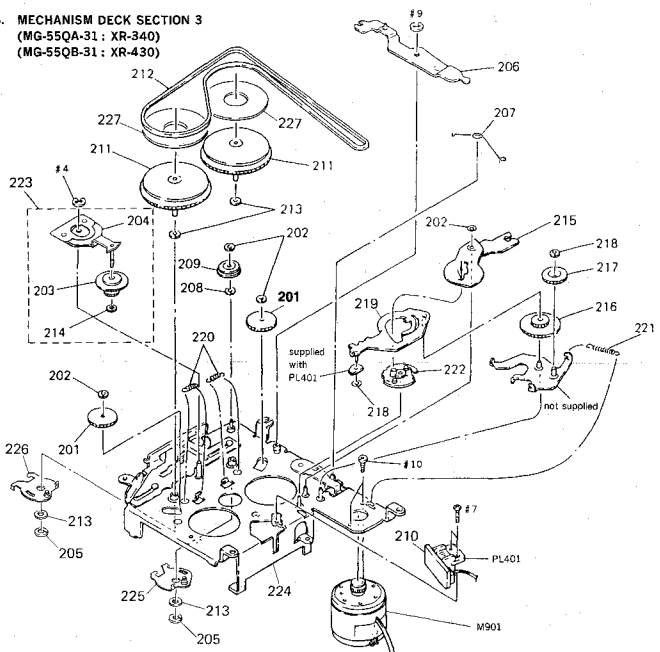
Ref.No.	Part No.	Description	Remark
* 114	3-344-157-01	SHAFT, DRIVING GEAR (B)	
115	3-344-156-01	GEAR (B), DRIVING	
116	3-344-222-01	WASHER	
* 117	3-360-239-13	BRACKET (U), HANGER	
118	3-344-165-02	GEAR (B), FRICTION	
119	X-3344-119-1	GEAR ASSY (L), LDG	
120	3-703-502-21	SCREW	
121	3-344-108-01	GEAR (FRICTION A)	
122	3-344-137-01	SPRING, COMPRESSION	
123	X-3344-117-1	ARM ASSY (L), MODE	
124	X-3344-109-4	ARM ASSY, DRIVING	
125	3-862-058-00	WASHER, SLIT	
M902	X-3362-826-1	MOTOR ASSY, LOADING TAPE OPERATION	
S902	1-572-397-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

6-4. MECHANISM DECK SECTION 2
(MG-55QA-31 : XR-340)
(MG-55QB-31 : XR-430)



Ref.No.	Part No.	Description	Remark
151	3-344-110-01	SCREW (HB), STEP	
152	3-344-116-01	ROLLER (A), H/B	
153	3-344-222-01	WASHER	
154	X-3362-214-1	TABLE (F) ASSY, REEL	
155	3-344-143-01	SPRING (ET), COMPRESSION	
156	3-365-725-01	CAP (F), REEL	
157	3-905-587-01	WASHER	
* 158	X-3366-705-1	BRACKET ASSY (FG), TABLE, REEL	
159	1-467-379-11	REEL BOARD	
* 160	X-3366-042-2	BASE ASSY (F), HEAD	
161	3-363-909-01	SPRING (D), PINCH PRESS	
162	3-344-128-06	SEAM, DAH	
163	3-372-170-01	ARM, DAH	
164	3-384-122-01	SCREW (M1.4X5.5), ADJ	
165	3-344-130-04	ROTATNER, HEAD	
* 166	3-344-220-01	COVER, MD	
* 167	3-382-483-01	LEVER (RVS JOINT)	
168	X-3344-115-1	ARM (B) ASSY, PINCH	
169	X-3344-116-1	ARM (F) ASSY, PINCH	
170	3-344-217-01	SPRING (CAM LOCK LEVER), TENSION	
171	3-701-437-01	POLY-SLIDER (A)	
HP901	1-500-020-11	HEAD, MAGNETIC (PLAYBACK)	

6-5. MECHANISM DECK SECTION 3
(MG-55QA-31 : XR-340)
(MG-55QB-31 : XR-430)



Ref.No.	Part No.	Description	Remark
201	3-376-927-01	GEAR (PLAY)	
202	3-344-222-01	WASHER	
203	X-3344-102-1	GEAR ASSY, FR	
* 204	X-3365-711-1	ARM ASSY (F6), FR	
205	3-364-151-01	WASHER	
* 206	X-3344-139-3	ARM ASSY, POWER	
207	3-344-279-03	SPRING, BUFFER	
208	3-701-436-01	WASHER, 1.6	
209	3-371-905-01	PULLEY (M), MIDWAY (XR-340)	
209	3-371-971-01	PULLEY (P), MIDWAY (XR-430)	
* 210	1-651-965-11	PLUNGER BOARD	
211	3-386-047-11	FLYWHEEL (D) (XR-340)	
211	3-389-521-02	FLYWHEEL (Z) (XR-430)	
212	3-387-987-01	BELT	
213	3-701-437-01	POLY-SLIDER (A)	
214	3-905-588-01	WASHER	
* 215	X-3344-114-1	LEVER ASSY, RVS	
218	3-344-146-01	GEAR (RVS-B)	
217	3-344-147-01	GEAR (RVS-A)	
218	3-344-223-01	WASHER	
219	X-3344-107-1	LEVER ASSY (F6), CAM LOCK	
220	3-344-218-02	SPRING (PLAY ARM), TENSION	
221	3-344-215-01	SPRING, TENSION	
222	3-369-171-01	GEAR (RVS CAM)	
223	A-3239-947-A	GEAR SUB ASSY, FR	
* 224	X-3366-043-1	CHASSIS (L) ASSY, MECHANICAL	
* 225	X-3366-402-1	ARM ASSY (PLAY F)	
* 226	X-3366-403-1	ARM ASSY (PLAY R)	
227	3-907-512-01	SHEET (FLYWHEEL) (XR-430)	
M901	X-3344-136-3	MOTOR SUB ASSY, CAPSTAN/REEL	
PL401	1-454-461-11	SOLENOID, PLUNGER	

SECTION 7
ELECTRICAL PARTS LIST

CONTROL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-3298-003-A	CONTROL BOARD, COMPLETE (XR-430)	
*	A-3298-007-A	CONTROL BOARD, COMPLETE (XR-340)	
		**********	
*	3-909-541-01	HOLDER (LCD)	
*	3-912-008-01	REFLECTOR, SHEET	
		< CAPACITOR >	
C701	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C702	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C703	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
		< CONNECTOR >	
CNP701	1-764-423-11	PIN, CONNECTOR 12P	
		< DIODE >	
D701	8-719-975-84	LED AY1101W-88 (⏏) (XR-340)	
D701	8-719-987-45	LED CL-155Y/PG-CD (⏏) (XR-430)	
D702	8-719-975-84	LED AY1101W-88 (TAPE <◧▷>) (XR-340)	
D702	8-719-987-45	LED CL-155Y/PG-CD (TAPE <◧▷>) (XR-430)	
D703	8-719-975-84	LED AY1101W-88 (CD) (XR-340)	
D703	8-719-987-45	LED CL-155Y/PG-CD (CD) (XR-430)	
D704	8-719-975-84	LED AY1101W-88 (AM) (XR-340)	
D704	8-719-987-45	LED CL-155Y/PG-CD (TV) (XR-430)	
D705	8-719-975-84	LED AY1101W-88 (FM) (XR-340)	
D705	8-719-987-45	LED CL-155Y/PG-CD (TUNER) (XR-430)	
D706	8-719-975-84	LED AY1101W-88 (SEEK AMS + ▷▷▷) (XR-340)	
D706	8-719-987-45	LED CL-155Y/PG CD (SEEK AMS + ▷▷▷) (XR-430)	
D707	8-719-975-84	LED AY1101W-88 (SEEK AMS - ◁◁◁) (XR-340)	
D707	8-719-987-45	LED CL-155Y/PG-CD (SEEK AMS - ◁◁◁) (XR-430)	
D708	8-719-975-84	LED AY1101W-88 (PRESET DISC +) (XR-340)	
D708	8-719-987-45	LED CL-155Y/PG-CD (PRESET DISC +) (XR-430)	
D709	8-719-975-84	LED AY1101W-88 (PRESET DISC -) (XR-340)	
D709	8-719-987-45	LED CL-155Y/PG-CD (PRESET DISC -) (XR-430)	
D710	8-719-975-84	LED AY1101W-88 (SENS BTM) (XR-340)	
D710	8-719-987-45	LED CL-155Y/PG-CD (SENS BTM) (XR-430)	
D711	8-719-975-84	LED AY1101W-88 (FILE) (XR-340)	
D711	8-719-987-45	LED CL-155Y/PG-CD (FILE) (XR-430)	
D712	8-719-975-84	LED AY1101W-88 (LOUD) (XR-340)	
D712	8-719-987-45	LED CL-155Y/PG-CD (LOUD) (XR-430)	
D713	8-719-975-84	LED AY1101W-88 (6 BL.SKIP) (XR-340)	
D713	8-719-987-45	LED CL-155Y/PG-CD (6 BL.SKIP) (XR-430)	
D714	8-719-975-84	LED AY1101W-88 (3 SHUF/◧◨) (XR-340)	
D714	8-719-987-45	LED CL-155Y/PG-CD (3 SHUF/◧◨) (XR-430)	
D715	8-719-975-84	LED AY1101W-88 (2 REPEAT) (XR-340)	
D715	8-719-987-45	LED CL-155Y/PG-CD (2 REPEAT) (XR-430)	
D716	8-719-975-84	LED AY1101W-88 (1 INTRO) (XR-340)	
D716	8-719-987-45	LED CL-155Y/PG-CD (1 INTRO) (XR-430)	
D717	8-719-975-84	LED AY1101W-88 (5 ATA) (XR-340)	
D717	8-719-987-45	LED CL-155Y/PG-CD (5 ATA) (XR-430)	
D718	8-719-975-84	LED AY1101W-88 (4 BANK/MTL) (XR-340)	
D718	8-719-987-45	LED CL-155Y/PG-CD (4 BANK/MTL) (XR-430)	
D719	8-719-975-84	LED AY1101W-88 (-) (XR-340)	
D719	8-719-987-45	LED CL-155Y/PG-CD (-) (XR-430)	
D720	8-719-975-84	LED AY1101W-88 (+) (XR-340)	
D720	8-719-987-45	LED CL-155Y/PG CD (+) (XR-430)	
D721	8-719-975-84	LED AY1101W-88 (SEL) (XR-340)	
D721	8-719-987-45	LED CL-155Y/PG-CD (SEL) (XR-430)	
D722	8-719-975-84	LED AY1101W-88 (MUTE) (XR-340)	
D722	8-719-987-45	LED CL-155Y/PG-CD (MUTE) (XR-430)	
D725	8-719-404-49	DIODE MA111 (XR-430)	
D725	8-719-422-43	DIODE MA8051-M	
D727	8-719-422-43	DIODE MA8051-M	
		< IC >	
IC701	8-759-246-76	IC TC9240F	
IC702	8-739-515-90	IC RS-20	

CONTROL

Ref.No.	Part No.	Description				Remark
		< JUMPER RESISTOR >				
JR701	1-216-295-00	METAL CHIP (XR-340)	0	5%	1/10W	
JR702	1-216-295-00	METAL CHIP (XR-340)	0	5%	1/10W	
		< LIQUID CRYSTAL DISPLAY >				
LCD701	1-810-461-11	DISPLAY PANEL, LIQUID CRYSTAL				
		< PILOT LAMP >				
PL701	1-517-181-21	LAMP, PILOT				
PL702	1-517-181-21	LAMP, PILOT				
PL711	1-517-181-11	LAMP, PILOT (XR-430)				
PL712	1-517-181-11	LAMP, PILOT (XR-430)				
		< TRANSISTOR >				
Q701	8-729-904-66	TRANSISTOR DTD113EK (XR-430)				
Q702	8-729-904-66	TRANSISTOR DTD113EK (XR-430)				
Q711	8-729-904-66	TRANSISTOR DTD113EK (XR-430)				
Q712	8-729-904-66	TRANSISTOR DTD113EK (XR-430)				
		< RESISTOR >				
R701	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R702	1-216-033-00	METAL CHIP	220	5%	1/10W	
R703	1-216-025-00	METAL CHIP	100	5%	1/10W	
R704	1-216-033-00	METAL CHIP	220	5%	1/10W	
R705	1-216-025-00	METAL CHIP	100	5%	1/10W	
R706	1-216-033-00	METAL CHIP	220	5%	1/10W	
R707	1-216-033-00	METAL CHIP	220	5%	1/10W	
R711	1-216-186-00	METAL GLAZE (XR-430)	330	5%	1/8W	
R712	1-216-031-00	METAL CHIP (XR-430)	180	5%	1/10W	
R713	1-216-021-00	METAL CHIP (XR-430)	68	5%	1/10W	
R714	1-216-031-00	METAL CHIP (XR-430)	180	5%	1/10W	
R715	1-216-021-00	METAL CHIP (XR-430)	68	5%	1/10W	
R716	1-216-031-00	METAL CHIP (XR-430)	180	5%	1/10W	
R717	1-216-031-00	METAL CHIP (XR-430)	180	5%	1/10W	
R721	1-216-049-00	METAL CHIP (XR-430)	1K	5%	1/10W	
R722	1-216-025-00	METAL CHIP	100	5%	1/10W	
R723	1-216-041-00	METAL CHIP	470	5%	1/10W	
R724	1-216-041-00	METAL CHIP	470	5%	1/10W	
R725	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R726	1-216-049-00	METAL CHIP	1K	5%	1/10W	

Ref.No.	Part No.	Description				Remark
R727	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R728	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R729	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R730	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R731	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R732	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R751	1-216-647-11	METAL CHIP	680	0.5%	1/10W	
R752	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R753	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R754	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R755	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R756	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	
R757	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	
R758	1-208-448-41	METAL GLAZE	2.4K	2%	1/10W	
R759	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W	
R760	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W	
R761	1-216-668-11	METAL CHIP	5.6K	0.5%	1/10W	
R762	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W	
R763	1-216-679-11	METAL CHIP	15K	0.5%	1/10W	
R771	1-216-647-11	METAL CHIP	680	0.5%	1/10W	
R772	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R773	1-216-649-11	METAL CHIP	820	0.5%	1/10W	
R774	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R775	1-216-651-11	METAL CHIP	1K	0.5%	1/10W	
R776	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W	
R777	1-216-635-11	METAL CHIP	1.5K	0.5%	1/10W	
R778	1-208-446-41	METAL GLAZE	2.4K	2%	1/10W	
R779	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W	
R780	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W	
		< SWITCH >				
S701	1-572-704-21	SWITCH, KEY BOARD (⏏)				
S702	1-692-386-21	SWITCH (AM) (XR-340)				
S702	1-692-386-21	SWITCH (TV) (XR-430)				
S703	1-692-386-21	SWITCH (FM) (XR-340)				
S703	1-692-386-21	SWITCH (TUNER) (XR-430)				
S704	1-692-386-21	SWITCH (+)				
S705	1-692-386-21	SWITCH (SEL)				
S706	1-692-386-21	SWITCH (-)				
S707	1-572-704-21	SWITCH, KEY BOARD (MUTE)				
S708	1-572-704-23	SWITCH, KEY BOARD (SEEK AMS - ⏮)				
S709	1-572-704-21	SWITCH, KEY BOARD (PRESET DISC -)				
S710	1-572-704-21	SWITCH, KEY BOARD (PRESET DISC +)				
S711	1-572-704-21	SWITCH, KEY BOARD (SEEK AMS + ⏭)				
S712	1-572-704-21	SWITCH, KEY BOARD (SENS BTM)				
S713	1-692-386-21	SWITCH (LOUD)				
S714	1-692-386-21	SWITCH (FILE)				
S721	1-572-704-21	SWITCH, KEY BOARD (OFF)				
S722	1-572-704-21	SWITCH, KEY BOARD (TAPE <□□>)				

Ref. No.	Part No.	Description			Remark
S723	1-692-386-21	SWITCH (CD)			
S724	1-692-386-21	SWITCH (DSPL)			
S726	1-572-704-21	SWITCH, KEY BOARD (1 INTRO)			
S727	1-572-704-21	SWITCH, KEY BOARD (2 REPEAT)			
S728	1-572-704-21	SWITCH, KEY BOARD (3 SHUF/□□)			
S729	1-692-386-21	SWITCH (4 BANK/MTL)			
S730	1-572-704-21	SWITCH, KEY BOARD (5 ATA)			
S731	1-572-704-21	SWITCH, KEY BOARD (6 BL.SKIP)			
**********					
*	A-3222-724-A	EQUALIZER BOARD, COMPLETE (XR-340)			
*	A-3222-725-A	EQUALIZER BOARD, COMPLETE (XR-430)			
		**********			
		< CAPACITOR >			
C302	1-104-534-11	FILM CHIP	390PF	5%	50V
C303	1-104-534-11	FILM CHIP	390PF	5%	50V
C304	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C305	1-126-189-11	ELECT	0.22uF	20%	50V
C306	1-104-543-11	FILM CHIP (XR-430)	0.0022uF	5%	50V
C307	1-104-543-11	FILM CHIP (XR-430)	0.0022uF	5%	50V
C308	1-104-543-11	FILM CHIP (XR-430)	0.0022uF	5%	50V
C309	1-104-563-11	FILM CHIP	0.1uF	5%	16V
C310	1-104-563-11	FILM CHIP (XR-430)	0.1uF	5%	16V
C311	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C312	1-102-970-11	CERAMIC CHIP	0.01uF	10%	25V
C313	1-126-187-11	ELECT	0.1uF	20%	50V
C314	1-128-393-11	ELECT	100uF	20%	10V
C315	1-126-193-11	ELECT	1uF	20%	50V
C316	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C401	1-102-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-104-534-11	FILM CHIP	390PF	5%	50V
C403	1-104-534-11	FILM CHIP	390PF	5%	50V
C404	1-104-551-11	FILM CHIP	0.01uF	5%	16V
C405	1-126-189-11	ELECT	0.22uF	20%	50V
C406	1-104-543-11	FILM CHIP (XR-430)	0.0022uF	5%	50V
C407	1-104-543-11	FILM CHIP (XR-430)	0.0022uF	5%	50V
C408	1-104-543-11	FILM CHIP (XR-430)	0.0022uF	5%	50V
C409	1-104-563-11	FILM CHIP	0.1uF	5%	16V
C410	1-104-563-11	FILM CHIP (XR-430)	0.1uF	5%	16V
C415	1-164-361-11	CERAMIC CHIP	0.047uF		16V
C501	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN301	1-569-809-21	CONNECTOR, FPC 5P			
CN302	1-569-806-21	CONNECTOR, FPC 5P			
* CN303	1-691-741-21	PIN, CONNECTOR (PC BOARD) 2P			
* CN401	1-750-217-21	CONNECTOR (WAFER) 18P			
		< DIODE >			
D301	8-719-404-33	DIODE	MA141WK		
D302	8-719-404-35	DIODE	MA141WK		
D303	8-719-404-33	DIODE	MA141WK		
		< IC >			
IC401	8-759-160-99	IC	HA12174 (XR-430)		
IC401	8-759-161-01	IC	HA12164 (XR-340)		
		< RESISTOR >			
R301	1-216-669-11	METAL CHIP	100K	0.5%	1/10W
R302	1-216-696-11	METAL CHIP	100K	0.5%	1/10W
R303	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R304	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R305	1-218-764-11	METAL GLAZE	330K	2%	1/10W
R306	1-218-724-11	METAL CHIP (XR-430)	22K	0.5%	1/16W
R307	1-218-686-11	METAL CHIP (XR-430)	560	0.5%	1/16W
R308	1-216-839-11	METAL CHIP	33K	5%	1/16W
R309	1-216-836-11	METAL CHIP	18K	5%	1/16W
R310	1-216-845-11	METAL CHIP	100K	5%	1/16W
R311	1-216-851-11	METAL CHIP	330K	5%	1/16W
R312	1-216-853-11	METAL CHIP	470K	5%	1/16W
R313	1-216-841-11	METAL CHIP	47K	5%	1/16W
R314	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R315	1-216-833-11	METAL CHIP	10K	5%	1/16W
R401	1-216-669-11	METAL CHIP	100K	0.5%	1/10W
R402	1-216-669-11	METAL CHIP	100K	0.5%	1/10W
R403	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R404	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R405	1-218-764-11	METAL GLAZE	330K	2%	1/10W
R406	1-218-724-11	METAL CHIP (XR-430)	22K	0.5%	1/16W
R407	1-218-686-11	METAL CHIP (XR-430)	560	0.5%	1/16W
		< VARIABLE RESISTOR >			
RV301	1-241-552-11	RES, ADJ CERMET 470			
RV401	1-241-552-11	RES, ADJ CERMET 470			

EQUALIZER MAIN

Ref.No.	Part No.	Description			Remark
		< SWITCH >			
S301	1-570-953-11	SWITCH, PUSH (1 KEY) (DETECT)			
S302	1-570-953-11	SWITCH, PUSH (1 KEY) (FWD/REV)			
**********					
*	A-3238-002-A	MAIN BOARD, COMPLETE (XR-430)			
*	A-3238-005-A	MAIN BOARD, COMPLETE (XR-340)			
		**********			
		< BUZZER >			
BZ601	1-504-468-21	SOUNDER, PIEZOELECTRIC			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-124-443-00	ELECT	100uF	20%	10V
C3	1-124-443-00	ELECT	100uF	20%	10V
C4	1-124-443-00	ELECT	100uF	20%	10V
C5	1-163-139-00	CERAMIC CHIP	47DPF	5%	50V
C11	1-163-969-11	CERAMIC CHIP	0.033uF	10%	25V
C21	1-163-969-11	CERAMIC CHIP	0.033uF	10%	25V
C32	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C52	1-136-169-00	FILM	0.22uF	5%	50V
C53	1-104-683-11	MYLAR	0.0047uF	5%	50V
C54	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C55	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C56	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C57	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C58	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C59	1-128-157-11	ELECT	10uF	20%	16V
C60	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C61	1-163-037-00	CERAMIC CHIP	15PF	5%	50V
C62	1-163-033-00	CERAMIC CHIP	18PF	5%	50V
C110	1-124-257-00	ELECT	2.2uF	20%	50V
C111	1-124-257-00	ELECT	2.2uF	20%	50V
C112	1-124-257-00	ELECT	2.2uF	20%	50V
C113	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C114	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C117	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C118	1-128-157-11	ELECT	10uF	20%	16V
C119	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C121	1-124-234-00	ELECT	22uF	20%	16V
C122	1-128-157-11	ELECT	10uF	20%	16V
C210	1-124-257-00	ELECT	2.2uF	20%	50V
C211	1-124-257-00	ELECT	2.2uF	20%	50V
C212	1-124-257-00	ELECT	2.2uF	20%	50V
C213	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C214	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

Ref.No.	Part No.	Description			Remark
C215	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C217	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C218	1-126-157-11	ELECT	10uF	20%	16V
C219	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C221	1-124-234-00	ELECT	22uF	20%	16V
C222	1-126-157-11	ELECT	10uF	20%	16V
C301	1-124-584-00	ELECT	100uF	20%	10V
C302	1-124-234-00	ELECT	22uF	20%	16V
C303	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C304	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C305	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C310	1-124-589-11	ELECT	47uF	20%	16V
C311	1-126-157-11	ELECT	10uF	20%	16V
C312	1-124-257-00	ELECT	2.2uF	20%	50V
C401	1-126-157-11	ELECT	10uF	20%	16V
C402	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C403	1-124-234-00	ELECT	22uF	20%	16V
C404	1-126-103-11	ELECT	470uF	20%	16V
C501	1-162-638-11	CERAMIC CHIP	1uF		16V
C503	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C504	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C505	1-126-157-11	ELECT	10uF	20%	16V
C506	1-126-157-11	ELECT	10uF	20%	16V
C507	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C508	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C509	1-126-157-11	ELECT (XR-430)	10uF	20%	16V
C514	1-163-153-00	CERAMIC CHIP	12PF	2%	50V
C515	1-163-153-00	CERAMIC CHIP	12PF	2%	50V
C551	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C552	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C571	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C572	1-163-197-00	CERAMIC CHIP	470PF	5%	50V
C573	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C574	1-125 705-11	DOUBLE LAYERS	0.22F		5.5V
C575	1-126-176-11	ELECT	220uF	20%	10V
C576	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C590	1-126-160-11	ELECT	1uF	20%	50V
C591	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C592	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C600	1-126-157-11	ELECT	10uF	20%	16V
C601	1-124-234-00	ELECT	22uF	20%	16V
C602	1-104-940-11	ELECT	10uF	20%	25V
C603	1-124-589-11	ELECT	47uF	20%	16V
C604	1-124-589-11	ELECT	47uF	20%	16V
C605	1-124-584-00	ELECT	100uF	20%	10V
C606	1-124-234-00	ELECT	22uF	20%	16V
C651	1-126-163-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN401	1-764-619-11	CONNECTOR (HOUSING) 18P	
* CN402	1-566-990-11	PIN, CONNECTOR (PC BOARD) 8P	
* CN501	1-580-050-11	PIN, CONNECTOR 20P	
CN551	1-580-907-31	PLUG, CONNECTOR (UNILINK IN CONTROL)	
CN571	1-764-422-11	PLUG, CONNECTOR 12P	
		< DIODE >	
D1	8-719-040-04	DIODE MA721WK-(TX)	
D301	8-719-901-33	DIODE 1SS133	
D310	8-719-035-54	DIODE MA4039-M(TA)	
D311	8-719-901-33	DIODE 1SS133	
D403	8-719-035-91	DIODE MA4091-H(TA)	
D405	8-719-901-33	DIODE 1SS133	
D406	8-719-901-33	DIODE 1SS133	
D501	8-719-901-33	DIODE 1SS133	
D551	8-719-035-77	DIODE MA4068-L(TA)	
D552	8-719-035-74	DIODE MA4062-M(TA)	
D553	8-719-035-74	DIODE MA4062-M(TA)	
D554	8-719-035-74	DIODE MA4062-M(TA)	
D570	8-719-035-74	DIODE MA4062-M(TA)	
D571	8-719-035-74	DIODE MA4062-M(TA)	
D572	8-719-035-74	DIODE MA4062-M(TA)	
D573	8-719-035-74	DIODE MA4062-M(TA)	
D574	8-719-035-74	DIODE MA4062-M(TA)	
D575	8-719-035-74	DIODE MA4062-M(TA)	
D576	8-719-035-74	DIODE MA4062-M(TA)	
D577	8-719-035-74	DIODE MA4062-M(TA)	
D578	8-719-035-74	DIODE MA4062-M(TA)	
D579	8-719-035-98	DIODE MA4110-M(TA)	
D580	8-719-914-44	DIODE 0AP202K	
D582	8-719-901-33	DIODE 1SS133	
D583	8-719-040-04	DIODE MA721WK-(TX)	
D590	8-719-901-33	DIODE 1SS133	
D591	8-719-036-24	DIODE MA4200-(TA)	
D601	8-719-035-69	DIODE MA4056-L(TA)	
D651	8-719-914-43	DIODE DAN202K	
D653	8-719-106-23	DIODE RD7.5M-B2	
		< IC >	
IC51	8-759-823-81	IC LC7216M	
IC301	8-752-063-44	IC CXA1646Q	
IC401	8-759-823-87	IC LB1638M	
IC501	8-759-262-44	IC uPD7551BGF-177-3B9	
IC502	8-759-165-36	IC X24C04S8IC700D	
IC551	8-759-096-15	IC MM1175XFF	
IC571	8-759-187-83	IC PST600EMY-T1	
IC601	8-759-182-75	IC BA9110B-VZ	

Ref. No.	Part No.	Description	Remark
		< JACK >	
* J1	1-750-619-11	JACK (ANTENNA)	
J501	1-566-822-11	JACK (WIRED COMMANDER)	
		< JUMPER RESISTOR >	
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR3	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR4	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR5	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR6	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR7	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR8	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR9	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR10	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR11	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR100	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR101	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR102	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR103	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR104	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR105	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR106	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR107	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR108	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR109	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR110	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR111	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR112	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR113	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR114	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR115	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR116	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR117	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR118	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR119	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR120	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR121	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR122	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR123	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR124	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR125	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR126	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR127	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR128	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR129	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR130	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR131	1-216-296-00	METAL GLAZE 0 5% 1/8W	

MAIN

Ref. No.	Part No.	Description			Remark
JR132	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR133	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR134	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR503	1-216-295-00	METAL CHIP	0	5%	1/10W
		(XR-340)			
		< COIL >			
L51	1-410-509-11	INDUCTOR	10uH		
L501	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q53	8-729-424-06	TRANSISTOR	UN2111		
Q54	8-729-021-94	TRANSISTOR	2SK1657-T1B		
Q310	8-729-424-52	TRANSISTOR	UN211F-TX		
Q311	8-729-021-93	TRANSISTOR	UPA502T-T1		
Q401	8-729-807-12	TRANSISTOR	2SD1802-S		
Q402	8-729-424-08	TRANSISTOR	UN2111		
Q403	8-729-105-60	TRANSISTOR	2SB1115A-YQ		
Q404	8-729-421-22	TRANSISTOR	UN2211		
Q405	8-729-902-93	TRANSISTOR	DTC114TK		
Q406	8-729-421-22	TRANSISTOR	UN2211		
Q503	8-729-421-22	TRANSISTOR	UN2211		
Q571	8-729-424-08	TRANSISTOR	UN2111		
Q572	8-729-209-15	TRANSISTOR	2SD2012		
Q573	8-729-209-15	TRANSISTOR	2SD2012		
Q574	8-729-105-60	TRANSISTOR	2SB1115A-YQ		
Q575	8-729-421-22	TRANSISTOR	UN2211		
Q576	8-729-424-08	TRANSISTOR	UN2111		
Q577	8-729-424-08	TRANSISTOR	UN2111		
Q578	8-729-216-22	TRANSISTOR	2SA1162-G		
Q579	8-729-424-59	TRANSISTOR	UN2212		
Q580	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q590	8-729-424-18	TRANSISTOR	UN2113		
Q593	8-729-421-22	TRANSISTOR	UN2211		
Q601	8-729-807-12	TRANSISTOR	2SD1802-S		
Q602	8-729-421-22	TRANSISTOR	UN2211		
Q851	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R1	1-216-049-00	METAL CHIP	1K	5%	1/10W
R3	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R4	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W
R7	1-216-097-00	METAL CHIP	100K	5%	1/10W
R8	1-216-081-00	METAL CHIP	22K	5%	1/10W
R11	1-249-421-11	CARBON	2.2K	5%	1/4W
R12	1-216-073-00	METAL CHIP	10K	5%	1/10W
R21	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R22	1-216-073-00	METAL CHIP	10K	5%	1/10W
R31	1-249-429-11	CARBON	10K	5%	1/4W
R32	1-216-081-00	METAL CHIP	22K	5%	1/10W
R52	1-249-417-11	CARBON	1K	5%	1/4W
R53	1-216-085-00	METAL CHIP	33K	5%	1/10W
R54	1-216-295-00	METAL GLAZE	2.2K	5%	1/8W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R56	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R110	1-249-427-11	CARBON	6.8K	5%	1/4W
R111	1-216-073-00	METAL CHIP	10K	5%	1/10W
R112	1-249-421-11	CARBON	2.2K	5%	1/4W
R113	1-249-429-11	CARBON	10K	5%	1/4W
R210	1-249-427-11	CARBON	6.8K	5%	1/4W
R211	1-216-073-00	METAL CHIP	10K	5%	1/10W
R212	1-249-421-11	CARBON	2.2K	5%	1/4W
R213	1-249-429-11	CARBON	10K	5%	1/4W
R301	1-249-425-11	CARBON	4.7K	5%	1/4W
R302	1-249-425-11	CARBON	4.7K	5%	1/4W
R303	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R310	1-216-017-00	METAL CHIP	47	5%	1/10W
R311	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R401	1-216-049-00	METAL CHIP	1K	5%	1/10W
R402	1-249-388-11	CARBON	4.7	5%	1/4W
R403	1-249-389-11	CARBON	4.7	5%	1/4W
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R406	1-247-811-31	CARBON	150	5%	1/4W
R501	1-216-049-00	METAL CHIP	1K	5%	1/10W
R502	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R503	1-216-097-00	METAL CHIP	100K	5%	1/10W
R504	1-216-089-00	METAL GLAZE	47K	5%	1/10W
		(XR-340)			
R505	1-216-081-00	METAL CHIP	22K	5%	1/10W
		(XR-430)			
R506	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R507	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R508	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R509	1-249-421-11	CARBON	2.2K	5%	1/4W
R510	1-216-061-00	METAL CHIP	22K	5%	1/10W
R511	1-249-441-11	CARBON	100K	5%	1/4W
R512	1-249-441-11	CARBON	100K	5%	1/4W
R513	1-249-441-11	CARBON	100K	5%	1/4W
R514	1-249-441-11	CARBON	100K	5%	1/4W
R515	1-216-097-00	METAL CHIP	100K	5%	1/10W
R516	1-216-097-00	METAL CHIP	100K	5%	1/10W
R517	1-216-245-00	METAL GLAZE	100K	5%	1/8W
R518	1-216-097-00	METAL CHIP	100K	5%	1/10W
R519	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R520	1-216-245-00	METAL GLAZE	100K	5%	1/8W

Ref.No.	Part No.	Description				Remark
R521	1-216-246-91	METAL GLAZE	100K	5%	1/8W	
R522	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R524	1-216-295-00	METAL CHIP (XR-340)	0	5%	1/10W	
R525	1-216-097-00	METAL CHIP (XR-430)	100K	5%	1/10W	
R526	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R529	1-249-421-11	CARBON	2.2K	5%	1/4W	
R530	1-249-423-11	CARBON	22K	5%	1/4W	
R533	1-216-246-00	METAL GLAZE (XR-430)	100K	5%	1/8W	
R534	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R535	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R550	1-216-017-00	METAL CHIP	47	5%	1/10W	
R551	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R552	1-247-807-11	CARBON	100	5%	1/4W	
R553	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R570	1-216-209-00	METAL GLAZE	2.2K	5%	1/8W	
R571	1-249-421-11	CARBON	2.2K	5%	1/4W	
R572	1-249-421-11	CARBON	2.2K	5%	1/4W	
R573	1-249-421-11	CARBON	2.2K	5%	1/4W	
R574	1-249-421-11	CARBON	2.2K	5%	1/4W	
R575	1-249-421-11	CARBON	2.2K	5%	1/4W	
R576	1-247-807-11	CARBON	100	5%	1/4W	
R577	1-247-807-11	CARBON	100	5%	1/4W	
R578	1-247-807-11	CARBON	100	5%	1/4W	
R579	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R580	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R581	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R582	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R583	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R584	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R587	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R588	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R589	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R590	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R591	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R592	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R593	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R594	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R596	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R601	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R602	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R603	1-249-411-11	CARBON	330	5%	1/4W	
R652	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R653	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R654	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R655	1-216-085-00	METAL CHIP	33K	5%	1/10W	

Ref.No.	Part No.	Description	Remark
		< SWITCH >	
S501	1-571-478-11	SWITCH, SLIDE (P-SEL)	
S571	1-571-532-21	SWITCH, TACTIL (RESET)	
		< TUNER >	
* TU1	A-5282-003-A	TUNER UNIT (TUX-001A)	
		< VIBRATOR >	
X1	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)	
X501	1-760-056-31	VIBRATOR, CRYSTAL (4.19MHz)	
**********			
*	1-651-665-11	PLUNGER BOARD	
		**********	
		< PLUNGER >	
PL401	1-454-461-11	SOLENOID, PLUNGER	
**********			
*	A-3298-001-A	POWER BOARD, COMPLETE	
		**********	
	7-621-770-67	SCREW +PTT 2.6X6 (S)	
		< CAPACITOR >	

C901	1-126-597-11	ELECT	2200uF	20%	16V
C902	1-126-597-11	ELECT	2200uF	20%	16V
C903	1-136-165-00	FILM	0.1uF	5%	50V
C904	1-126-157-11	ELECT	10uF	20%	16V
C911	1-136-165-00	FILM	0.1uF	5%	50V
C912	1-136-165-00	FILM	0.1uF	5%	50V
C913	1-136-165-00	FILM	0.1uF	5%	50V
C914	1-136-165-00	FILM	0.1uF	5%	50V
C915	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C921	1-136-165-00	FILM	0.1uF	5%	50V
C922	1-136-165-00	FILM	0.1uF	5%	50V
C923	1-136-165-00	FILM	0.1uF	5%	50V
C924	1-136-165-00	FILM	0.1uF	5%	50V
C925	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
C931	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C932	1-124-257-00	ELECT	2.2uF	20%	50V
C941	1-102-106-00	CERAMIC	100PF	10%	50V
C950	1-124-257-00	ELECT	2.2uF	20%	50V
C951	1-124-257-00	ELECT	2.2uF	20%	50V
C952	1-126-163-11	ELECT	4.7uF	20%	50V
C953	1-126-163-11	ELECT	4.7uF	20%	50V
C961	1-124-257-00	ELECT	2.2uF	20%	50V
C961	1-124-257-00	ELECT	2.2uF	20%	50V
C962	1-126-163-11	ELECT	4.7uF	20%	50V

POWER

Ref.No.	Part No.	Description			Remark
C863	1-126-163-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
CNP900	1-764-426-21	PLUG, CONNECTOR 15P			
* CNP901	1-580-051-11	SOCKET, CONNECTOR 20P			
		< DIODE >			
D901	8-719-945-50	DIODE	DSA3A4		
D911	8-719-200-82	DIODE	11ES2		
D912	8-719-200-82	DIODE	11ES2		
D921	8-719-200-82	DIODE	11ES2		
D922	8-719-200-82	DIODE	11ES2		
D931	8-719-035-74	DIODE	MA4062-M(TA)		
		< IC >			
IC901	8-759-160-00	IC	HA13151		
		< JACK >			
J905	1-691-604-51	JACK, PIN 6P (AUDIO IN/FRONT/REAR)			
		< JUMPER RESISTOR >			
JR951	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR952	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR953	1-216-296-00	METAL GLAZE	0	5%	1/8W
		< TRANSISTOR >			
Q950	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q951	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q952	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q953	8-729-920-21	TRANSISTOR	DTC314TKH04		
		< RESISTOR >			
R911	1-249-385-11	CARBON	2.2	5%	1/6W
R912	1-249-385-11	CARBON	2.2	5%	1/6W
R913	1-249-385-11	CARBON	2.2	5%	1/6W
R914	1-249-385-11	CARBON	2.2	5%	1/6W
R921	1-249-385-11	CARBON	2.2	5%	1/6W
R922	1-249-385-11	CARBON	2.2	5%	1/6W
R923	1-249-385-11	CARBON	2.2	5%	1/6W
R924	1-249-385-11	CARBON	2.2	5%	1/6W
R931	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R941	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R942	1-249-421-11	CARBON	2.2K	5%	1/4W
R950	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R951	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R952	1-249-409-11	CARBON	220	5%	1/4W
R953	1-249-409-11	CARBON	220	5%	1/4W

Ref.No.	Part No.	Description			Remark
R954	1-216-081-00	METAL CHIP	22K	5%	1/10W
R955	1-216-081-00	METAL CHIP	22K	5%	1/10W
R960	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R961	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R962	1-216-162-00	METAL GLAZE	220	5%	1/8W
R963	1-249-409-11	CARBON	220	5%	1/4W
R964	1-216-081-00	METAL CHIP	22K	5%	1/10W
R965	1-216-081-00	METAL CHIP	22K	5%	1/10W

****

MISCELLANEOUS

****

S	1-765-981-11	CORD (WITH CONNECTOR)
F901	1-533-326-11	FUSE (BLADE TYPE) (AUTO FUSE) (3A)
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) (15A)
HP901	1-500-029-11	HEAD, MAGNETIC (PLAYBACK)
M901	X-3344-136-3	MOTOR SUB ASSY, CAPSTAN/REEL
M902	X-3362-826-1	MOTOR ASSY, LOADING TAPE OPERATION
S802	1-572-397-11	SWITCH, ROTARY-SLIDE (TAPE OPERATION)

****

****

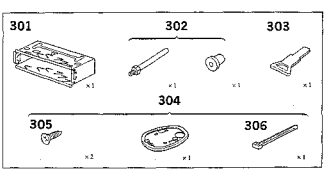
HARDWARE LIST

****

#1	7-621-255-65	SCREW +P 2X10
#2	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT
#3	7-621-770-67	SCREW +PTT 2.6X6 (S)
#4	7-624-102-04	STOP RING 1.5, TYPE-E
#5	7-628-253-05	SCREW +PS 2X4
#6	7-621-770-XX	SCREW +PTT 2.6X6 (S)
#7	7-627-850-67	SCREW, PRECISION +P 1.4X4
#8	7-627-850-18	SCREW, PRECISION +P 1.4X2.5
#9	7-624-104-04	STOP RING 2.0, TYPE -E
#10	7-627-354-07	SCREW, PRECISION +P 2X2.2
#11	7-621-772-10	SCREW +B 2X4
#12	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT
#13	7-621-773-95	SCREW +PTT 2.6X6 (S)

****

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	X-3367-795-1	CASE ASSY	
	1-467-523-11	REMOTE COMMANDER (RM-X1S) (XR-430)	
	3-758-185-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (XR-430)	
	3-758-186-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH,FRENCH) (XR-430)	
	3-758-187-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (XR-340)	
	3-758-188-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH,FRENCH) (XR-340)	
*	3-910-724-01	INDIVIDUAL CARTON (XR-340)	
*	3-910-728-01	INDIVIDUAL CARTON (XR-430)	
*	3-913-475-01	CUSHION (UPPER)	
*	3-913-476-01	CUSHION (LOWER)	
		**********	
		MOUNTING HARDWARE	
		**********	
* 301	X-3366-235-1	FRAME ASSY, FITTING	
302	X-3366-465-1	SCREW ASSY (EXP), FITTING	
303	3-388-078-01	KEY	
304	X-3366-170-1	BRACKET ASSY (XR-430)	
305	7-621-653-30	SCREW +KTP 3X12 TYPE4 (XR-430)	
306	3-655-653-21	BAND (TAITON), BINDING (XR-430)	



XR-340/430

SONY

SERVICE MANUAL

US Model
Canadian Model

SUPPLEMENT-1

File this supplement with the Service Manual.

Subject : 1. CHANGED OF PC BOARDS
2. GENERAL

TABLE OF CONTENTS

Section	Title	Page
1.	**CHANGED OF PC BOARDS**	
1-1.	Changed Parts List	3
1-2.	Schematic Diagram—Power Section—	4
1-3.	Schematic Diagram—Main Section—	8
1-4.	Printed Wiring Boards	13
2.	**GENERAL**	
	Location and Function of Controls	17
	Detaching and Attaching the Front Panel	18
	Setting the Clock	18
	Listening to the Tape Playback	19
	Listening to the CD Play	19
	Playing in Other Modes	19
	Displaying the Title of Each Disc	20
	Playing Selected Tracks on a Disc	21
	Displaying the Stored CD's Information on the TV Monitor	21
	Tuning in a Station	21
	Memorizing the Stations Automatically	22
	Memorizing Only the Desired Stations	22
	Receiving the Memorized Stations	22
	Displaying the Name of Each Station	22
	Displaying the Contents of the Preset Memory on the TV monitor	23
	Watching Video	23
	Watching TV or Video While Listening to CD or Tape	24
	Installation	25
	Connections	26

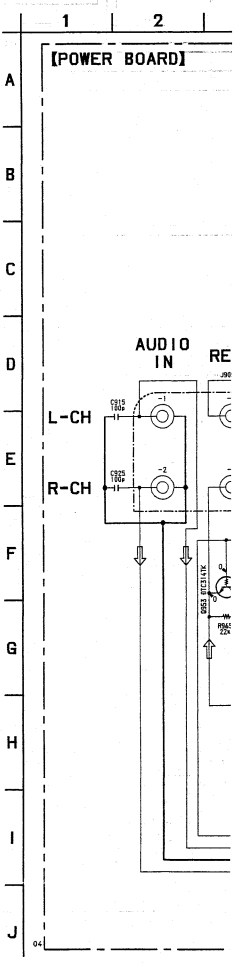
Note :
The 2. GENERAL information is found of different page from original Service Manual.

1. CHANGED OF PC BOARDS

1-1. CHANGED PARTS LIST

Page	Former Type						New Type					
	Ref. No.	Part No.	Description			Remark	Part No.	Description				Remark
57	*	3-909-541-01	HOLDER (LCD)				*3-913-756-01	HOLDER (LCD)				
60	C99 C651	— 1-126-163-11	— ELECT	— 4.7μF	— 20%	— 50V	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
61	JR12 JR13 JR122	— — 1-216-296-00	— — METAL GLAZE	— — 0	— — 5%	— — 1/8W	1-216-295-00 1-216-295-00	METAL CHIP METAL CHIP	0 0	5% 5%	1/10W 1/10W	
62	JR135 R8	— 1-216-081-00	— METAL CHIP	— 22K	— 5%	— 1/10W	1-216-296-00	METAL GLAZE	0	5%	1/8W	
63	C932	1-124-257-00	ELECT	2.2μF	20%	50V	1-124-465-00	ELECT	0.47μF	20%	50V	

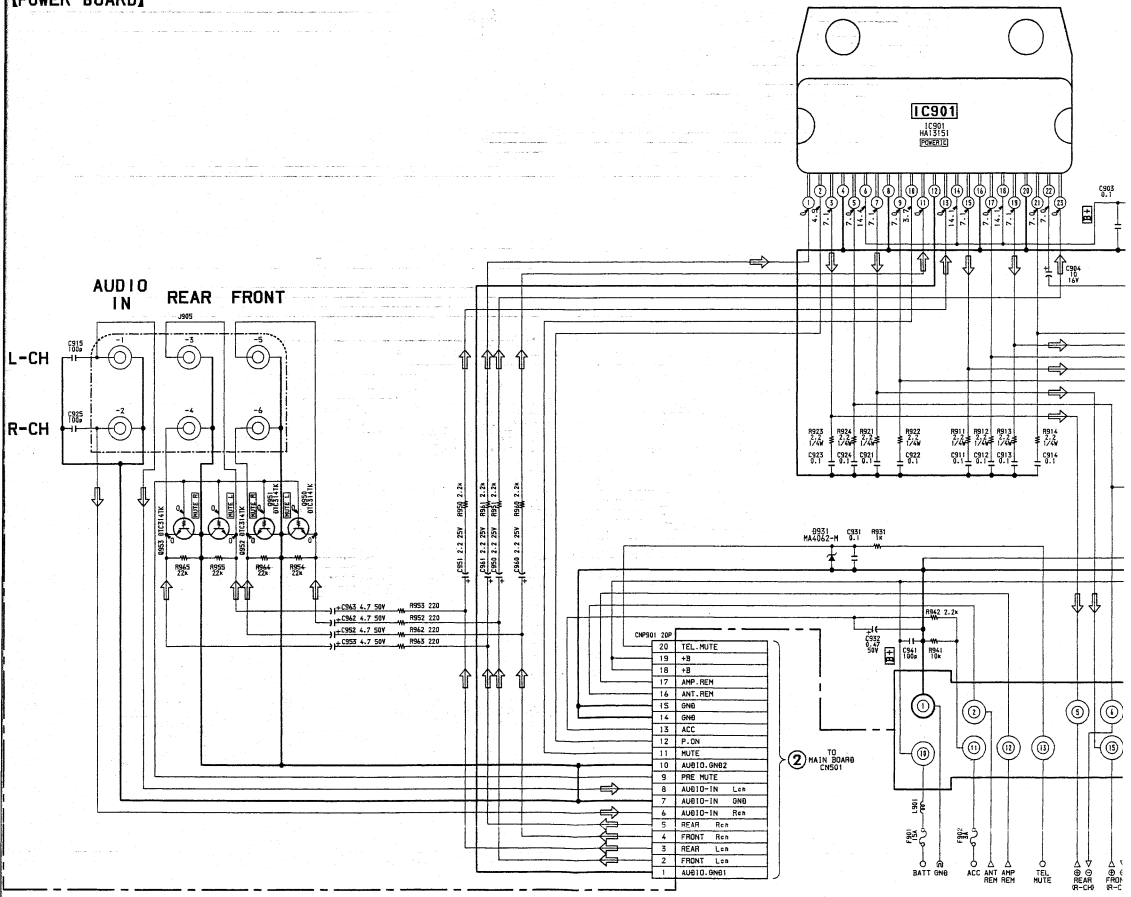
1-2. SCHEMATIC DIAGRAM—POWE

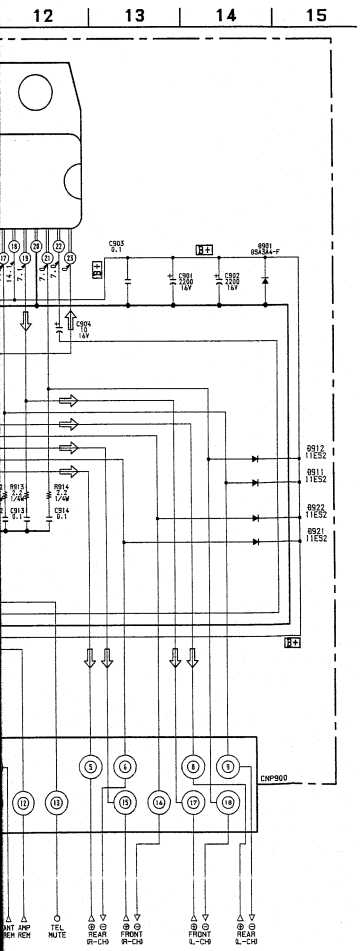


SCHEMATIC DIAGRAM—POWER SECTION—

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1

[POWER BOARD]





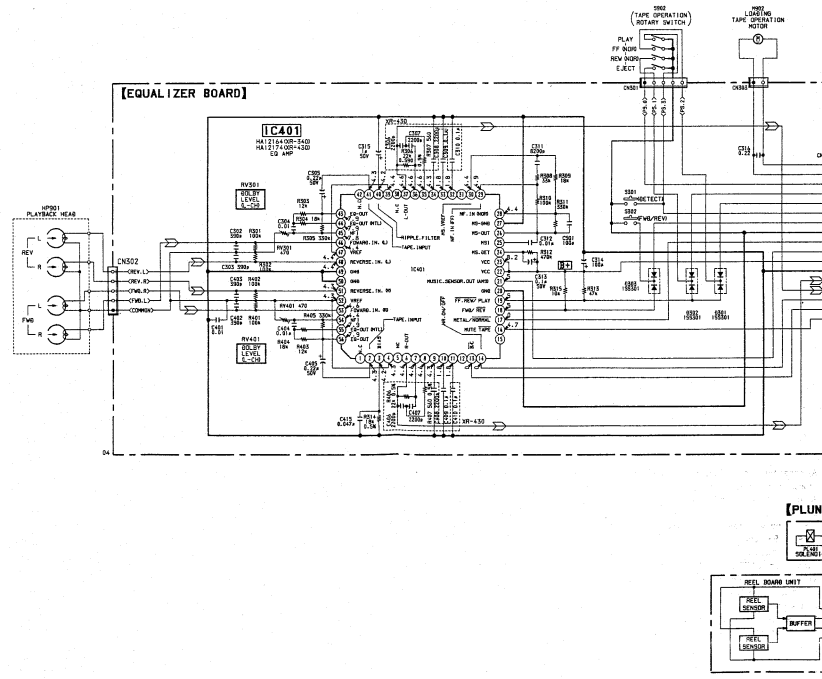
Note :

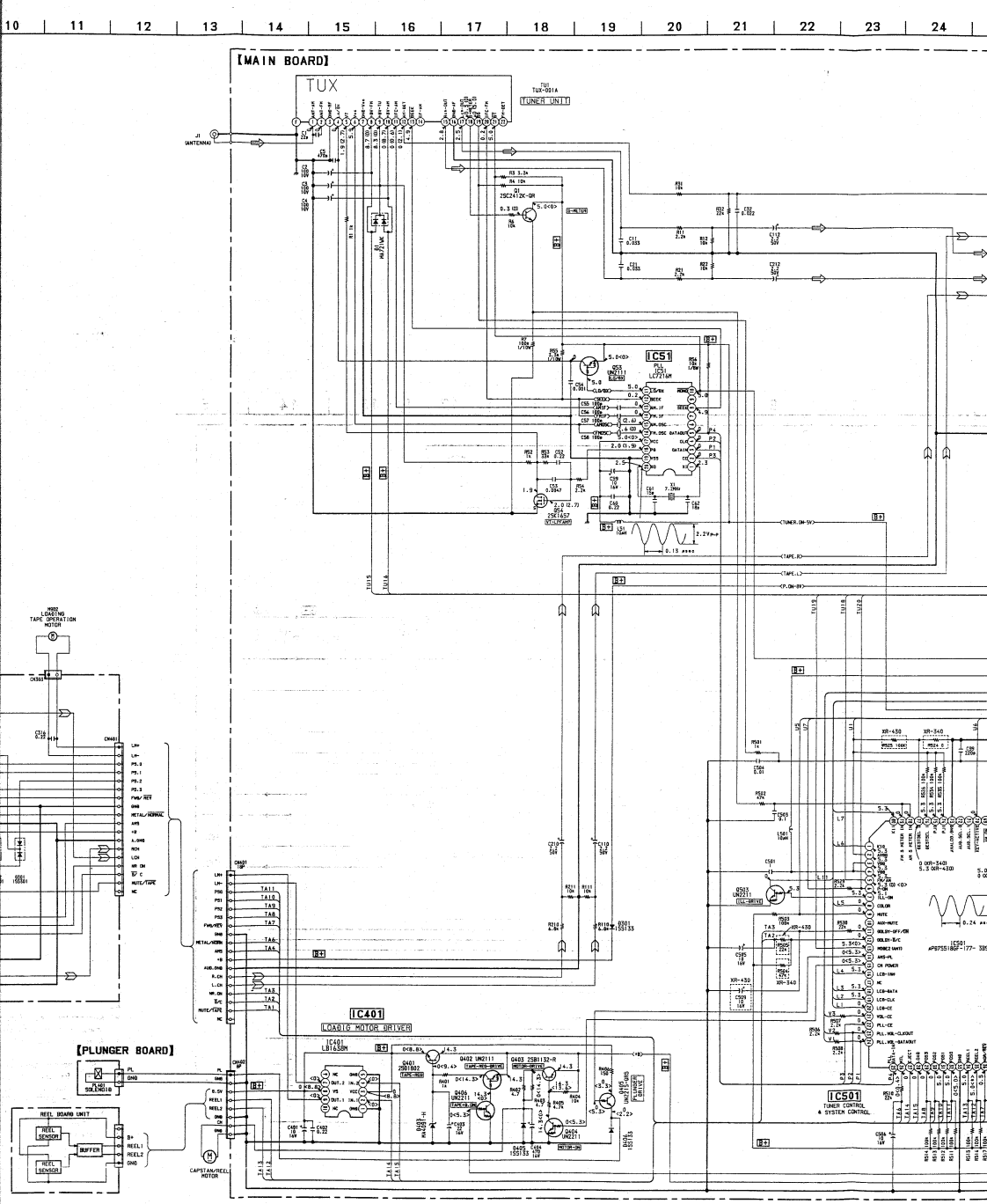
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

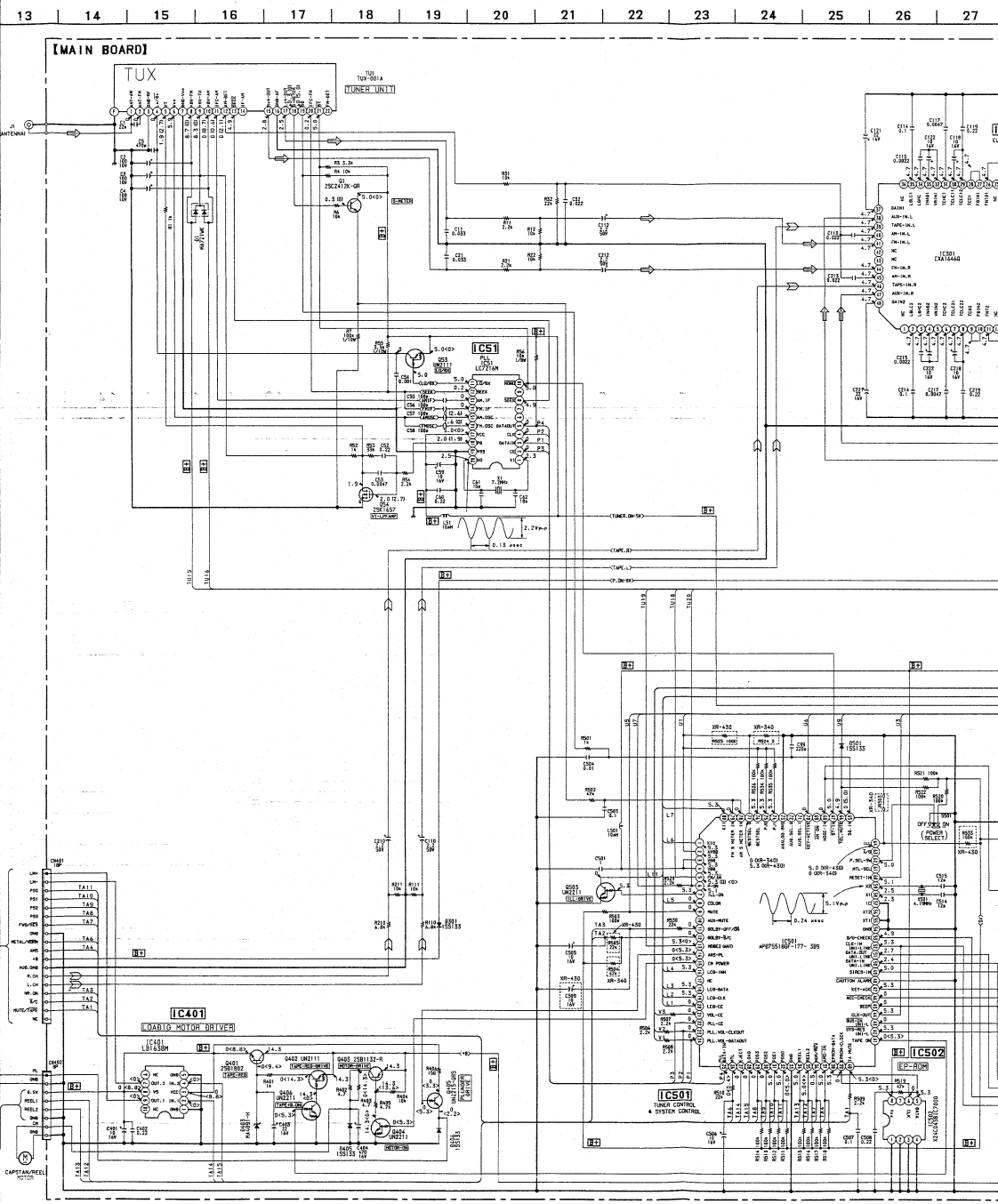
1-3. SCHEMATIC DIAGRAM—MAIN SECTION—

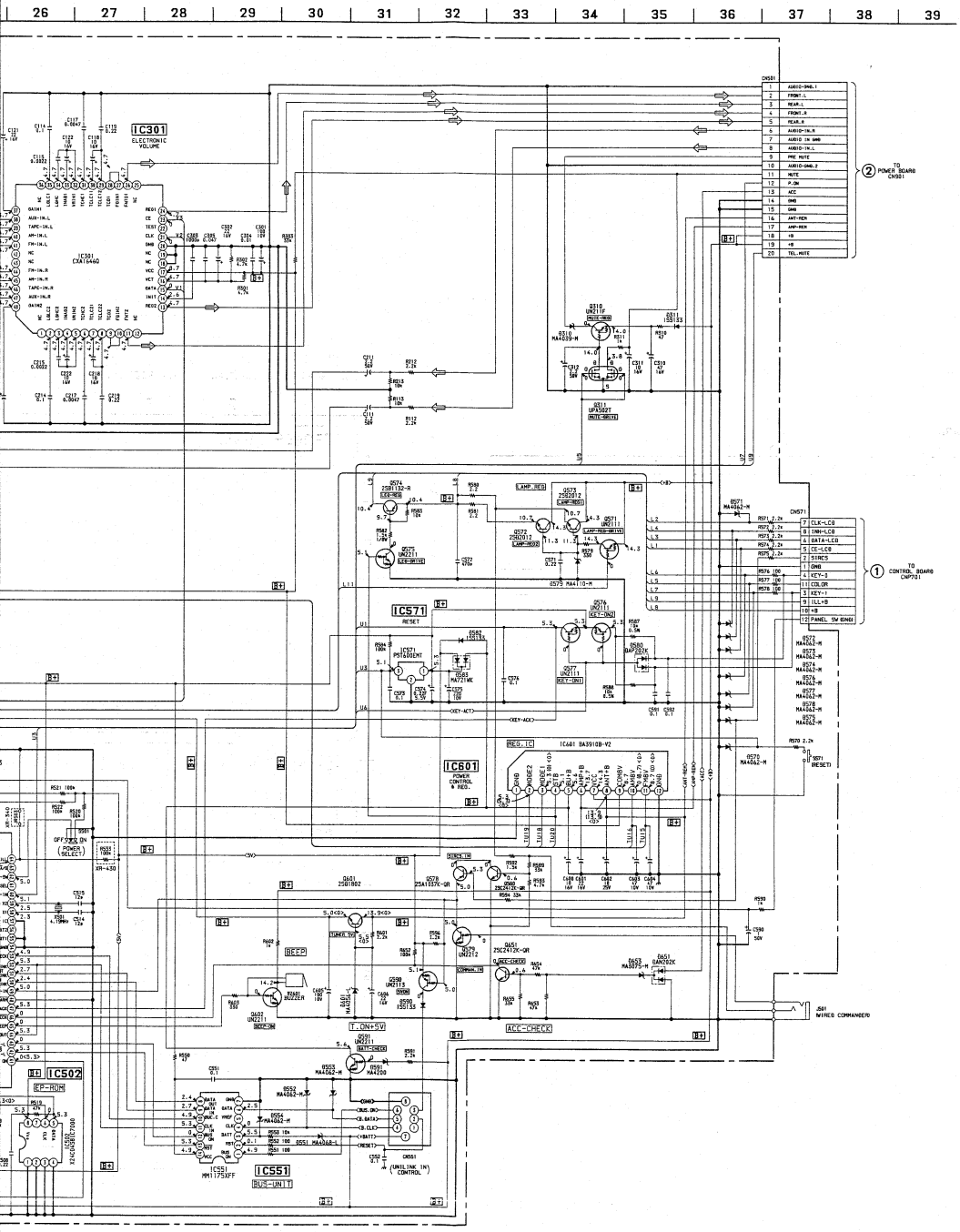
Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
  ( ): AM
  < >: PB
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB

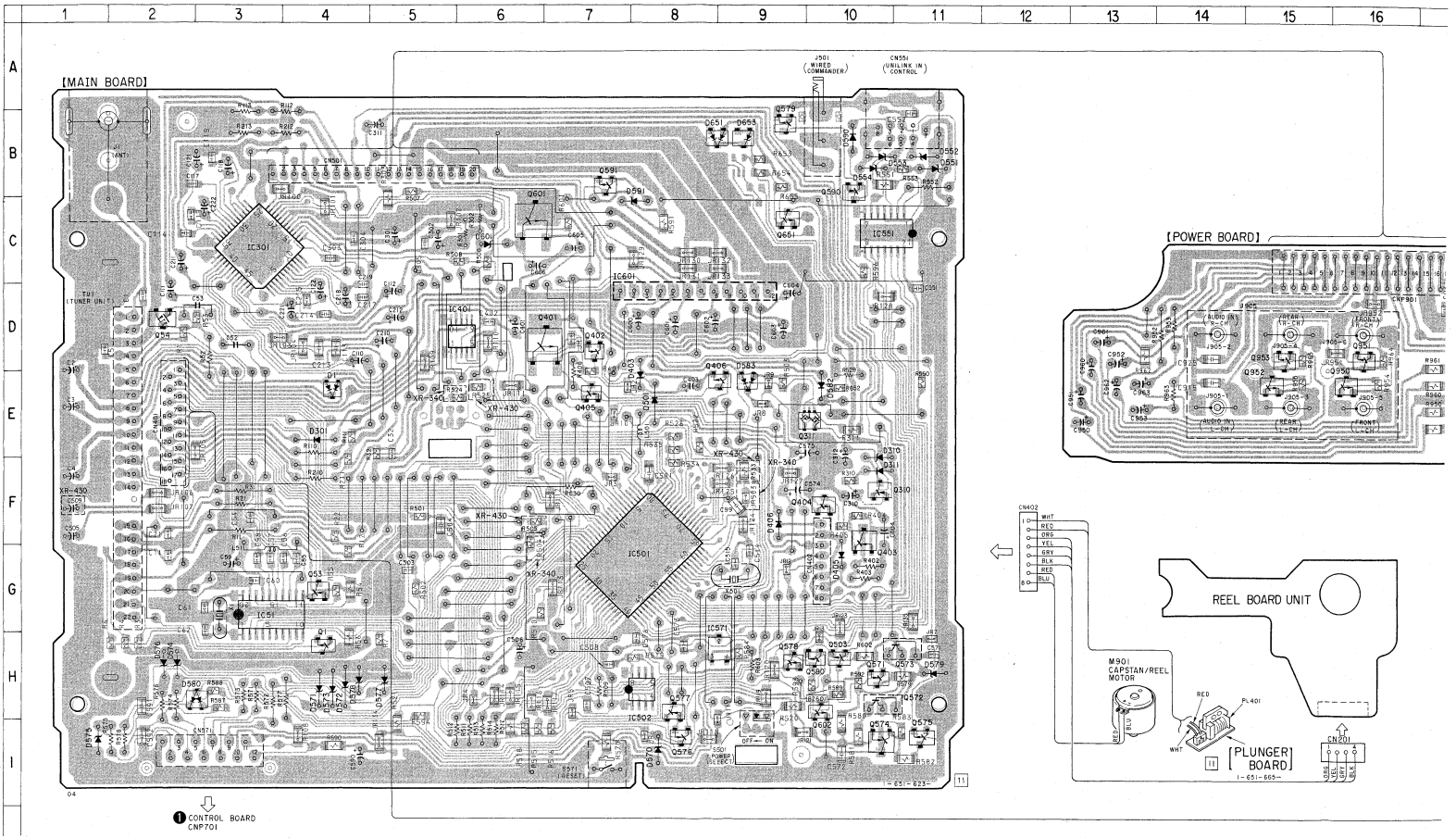


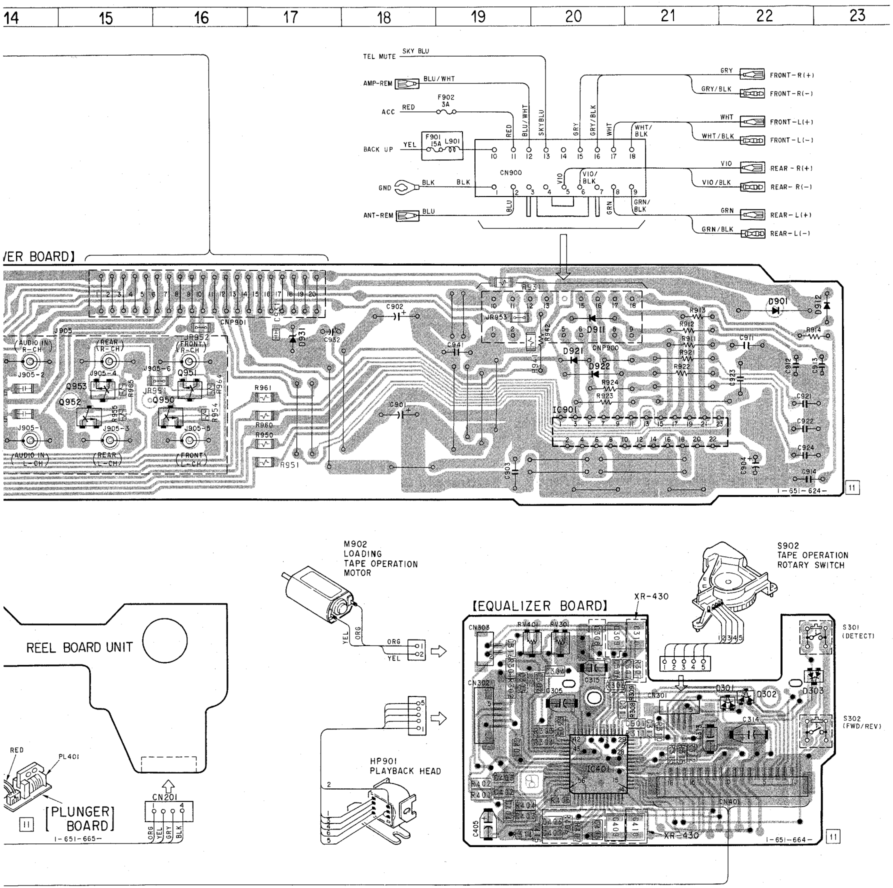

【MAIN BOARD】
TUX
TU1
TUV-101A
TUNER UNIT
J1
ANTENNA
IC51
LC72134M
IC401
LB1638M
LOADIG MOTOR DRIVER
IC501
TUNER CONTROL
& SYSTEM CONTROL
【PLUNGER BOARD】
REEL BOARD UNIT
REEL SENSOR
BUFFER
CAPSTAN/REEL MOTOR
LOADING TAPE OPERATION MOTOR
PLUNGER DRIVE
<TUNER.ON-SW>
<TAPE.R>
<TAPE.L>
<P.ON-SW>


【MAIN BOARD】
TUX
TUX-001A
TUNER UNIT
IC51
LC72136M
IC401
LB1656M
LOADING MOTOR DRIVER
IC501
TUNER CONTROL & SYSTEM CONTROL
IC502
EP-ROM
IC301
CXA1644S
CAPSTAN/REEL MOTOR


IC301
ELECTRONIC VOLUME
IC601
POWER CONTROL & RELAY
IC571
RESET
IC502
EP-ROM
IC551
BUS-UNIT
REG. IC
CN501
CN571
TO POWER BOARD CN501
TO CONTROL BOARD CN7701
BEEP
ACC-CHECK
T.ON+5V

1-4. PRINTED WIRING BOARDS





• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	E-4	IC301	C-3
D301	E-4	IC401	D-6
(D301)	H-22	(IC401)	H-20
(D302)	H-22	IC501	G-8
(D303)	G-22	IC502	H-8
D310	F-10	IC551	C-10
D311	F-10	IC571	H-8
D403	E-8	IC601	D-8
D405	G-10	IC901	E-21
D406	F-9		
D501	E-8	Q1	H-4
D551	B-11	Q53	G-4
D552	B-11	Q54	D-2
D553	B-10	Q310	F-10
D554	B-10	Q311	E-10
D570	I-8	Q401	D-6
D571	H-4	Q402	D-7
D572	H-4	Q403	F-10
D573	H-4	Q404	F-10
D574	H-2	Q405	E-7
D575	I-1	Q406	E-8
D576	H-2	Q503	H-10
D577	H-5	Q571	H-10
D578	H-4	Q572	H-10
D579	B-9	Q573	H-11
D580	H-2	Q574	I-10
D582	H-10	Q575	I-11
D583	E-9	Q576	I-8
D590	B-10	Q577	H-8
D591	C-7	Q578	H-9
D601	C-6	Q579	H-11
D651	B-8	Q580	H-10
D653	B-9	Q590	B-10
D901	D-22	Q591	B-7
D911	D-20	Q601	C-6
D912	D-23	Q602	H-10
D921	D-20	Q651	C-9
D922	D-20	Q950	E-16
D931	D-17	Q951	D-16
		Q952	E-15
IC51	G-3	Q953	D-15

( ): EQUALIZER board

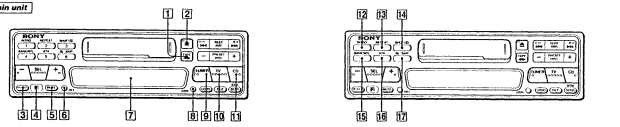
Note :

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ░ : Pattern on the rear side.

This section is extracted from XR-430's instruction manual.

Location and Function of Controls

Main unit



Refer to the pages in ● for details.

[1] **TAPE ◄⏮ (playback/transport direction change) button** ●

[2] **⏏ (eject) button**

[3] **RELEASE (front panel release) button** ●

[4] **Receptor for the remote commander**

[5] **MUTE button**
Press to mute the sound momentarily. Press again to restore the same volume level. This button will be also canceled in the following cases:
— when the ⏻ button or the OFF button is pressed.
— when ejecting a cassette by pressing the ⏏ button during tape playback.
— when the ignition key of your car has been turned to the OFF position for more than eight seconds.

[6] **OFF (power off) button**
Press to turn off the unit.

[7] **Display window**

[8] **DSPL (display mode change/time set) button**
Each time the button is pressed, the display on the display window changes as follows:

During tape playback	"PLAY"→ Clock (Clock → Frequency)*
During CD play	Elapsed playback time → Disc title** → Clock
During radio reception	Station name** → Frequency → Clock
During TV reception	Channel number → TV station name** → Clock

*While the ATA function is activated.
**If the title has not being registered "NO NAME" indication will appear on the display window.

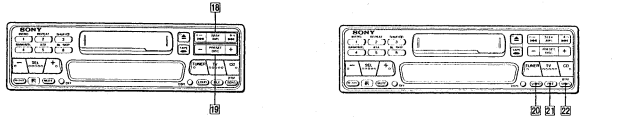
[9] **TUNER (radio on/band select) button**
Each time the button is pressed, the band changes in order of:
→FM1→ FM2→ FM3→ AM→

[10] **TV (television/video select) button***
Each time the button is pressed, the mode changes in order of:
TV1 (television picture) → TV2→ VIDEO1 (video picture) → VIDEO2** → TV1
*Only when the optional TV tuner unit is connected.
**Only when the rear TV monitor is connected and the "VH863Z" mode is selected.

[11] **CD (disc play/CD changer select) button** ●

	During tape playback	During CD play	During radio/TV reception
[12]	INTRO (track cue play) button ● ●		
[13]	REPEAT (repeat play) button ● ●		
[14]	**(Dolby NR) button** Press when listening to a tape recorded in the Dolby B and Dolby C NR system. Each time you press the button, the mode changes as follows: →Dolby B-NR →Dolby C-NR→ Cancel←	**SHUF (shuffle play) button** ●	Preset number button ● ●
[15]	**MTL (metal/CrO2) button** Press when listening to a CrO2 (TYPE II) or metal (TYPE IV) tape. To cancel, press it once more.	**BANK button** ●	
[16]	**ATA (Automatic Tuner Activation) button** Press to make the tuner turn on automatically every time you fast-wind a tape. To cancel, press it once more.	—	
[17]	**BL SKIP button** Press to skip a blank space (longer than eight seconds) automatically during tape playback. To cancel, press it once more.	—	

Location and Function of Controls



	During tape playback	During CD play	During radio/TV reception
[18]	**AMS (Automatic Music Sensor) function** ⏭: Press once to locate the beginning of the currently playing track. ⏮: Press once to locate the beginning for the next track. Press repeatedly to locate previous or succeeding tracks.		**SEEK (automatic tuning) function** ●
[19]	**FF/REW (fast-forward/rewind) button**	**DISC (disc change*/manual search) function**	**Preset (preset search/manual tuning) function**
		Side: **Disc search* (Press lightly)** / **Manual search (Keep pressed)**	Side: **Preset search (Press lightly)** / **Manual tuning (Keep pressed)**
		+ : To select the next disc numbers / To fast forward	+ : To select the next number of the preset number buttons / For higher frequencies
		– : To select the previous disc numbers / To fast reverse	– : To select the previous number of the preset number buttons / For lower frequencies

*Only when the optional CD changer(s) is(are) connected.

[20] **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at a low volume level. To cancel the mode, press it once more.

[21] **FILE (custom file mode select・set/list up) button**
Each time the button is pressed, the mode changes as follows:
→ Press the button for more than two seconds.
→ Press the button lightly.

Normal CD play/radio・TV reception
↓
Name edit mode
↓
PLAY/SKIP edit mode*
↓
Cancel (Normal CD play/radio・TV reception)

*The unit enters this mode only when the CD custom file function is activated.

If the button is pressed only lightly while the optional TV tuner and monitor are connected, the information of the disc and radio/TV will be displayed on the TV monitor.

[22] **SENS/BTM (sensitivity adjust/Best Tuning Memory function) button** ● ●

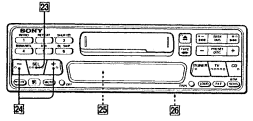
Changing the illumination color

Press the ☀ button while pressing the ☀ button.
You can choose the color between amber and green.

Muting the beep tone

Press the ♪ button while pressing the ☀ button. To obtain the beep tone again, press these buttons once more.

Location and Function of Controls



[23] **SEL (control mode select) button**
Press to select the desired control mode: BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume).

[24] **▲/▼ (bass/treble/balance/fader/volume control) button**
Press to adjust each mode.

Display window	Control mode	▲	▼
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control*	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

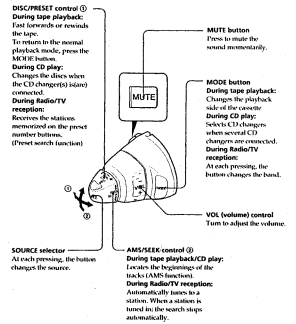
*When you use the stereo graphic equalizer (not supplied), set the fader control to the center position and adjust the level with the equalizer.

[25] **Reset button (located on the front side of the unit hidden by the front panel)**
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function properly.

[26] **POWER SELECT switch (located on the bottom of the unit)**
See "POWER SELECT Switch" in the installation/connections manual.

XR-430 :

5 Commander (RM-X15)



DISC/PRESET control ①
During tape playback:
Fast forwards or rewinds the tape.
To return to the normal playback mode, press the MODE button.
During CD play:
Changes the discs when the CD changer(s) is(are) connected.
During Radio/TV reception:
Receives the stations memorized on the preset number buttons.
(Preset search function)

MUTE button
Press to mute the sound momentarily.

MODE button
During tape playback:
Changes the playback side of the cassette
During CD play:
Selects CD changers when several CD changers are connected.
During Radio/TV reception:
At each pressing, the button changes the band.

VOL (volume) control
Turn to adjust the volume.

SOURCE selector
At each pressing, the button changes the source.

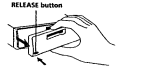
AMS/SEEK control ②
During tape playback/CD play:
Locates the beginnings of the tracks (AMS function).
During Radio/TV reception:
Automatically tunes to a station. When a station is tuned in, the search stops automatically.

When the POWER SELECT switch is set to the OFF position, the unit cannot be operated with the 5 commander unless one of the CD, TUNER and TV buttons of the unit is pressed or a disc is inserted to activate the unit first.

Detaching and Attaching the Front Panel

Detaching the Front Panel

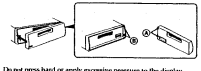
Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button to open up the front panel, and detach the panel by pulling it towards you as illustrated.



Do not drop the panel when detaching it from the unit.

Attaching the Front Panel

Apply the right hand side of the front panel to the unit by attaching part Ⓐ of the front panel to part Ⓑ of the unit as illustrated and push until it clicks.

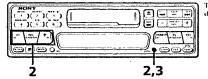


Do not press hard or apply excessive pressure to the display window of the front panel.

Caution alarm
If you turn the ignition key to the OFF position without removing the front panel, the caution alarm will be activated and a beep-sound will be heard for a few seconds.

Notes
- Make sure that the front panel is the right way up when attaching it to the unit. It cannot be attached upside down.
- When attaching the front panel, do not press it hard against the unit. It can be easily attached by pressing lightly.
- Never leave the detached front panel in your car if it is parked in direct sunlight. There could be a considerable rise in temperature inside the car.
- When you carry the front panel with you, put it in the supplied front panel case.
- The display window may become warm while the unit is operated. This is not a sign of a malfunction.

Setting the Clock



The clock has a 12-hour digital indication.

For example, to set it to 10:00.

1 Turn the ignition key to the ON position.

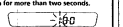
2 Press the DSPL button for more than two seconds.

DSPL

While keeping the DSPL button pressed, proceed with the following:

DSPL

Press either the ▲ or ▼ button to set the hour digits. (▲: to go forward) (▼: to go back)



Press the SEL button.

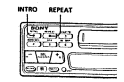
SEL

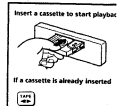
Press either the ▲ or ▼ button to set the minute digits. (▲: to go forward) (▼: to go back)

3 The clock starts activating when you take your finger off the DSPL button.

Note
If the POWER SELECT switch on the bottom of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you have turned on the radio, or start CD play or tape playback.

Listening to th





Playing in Other Moc

Playing the beginning of tr — Intro scan function

Press the INTRO button during playb

The first 10 seconds of all the tracks desired track, press the button once normal playback mode.

Playing repeatedly — Repea

Press the REPEAT button during playb

When the currently playing track is a again from the beginning. To cancel once more.

Playing in Oth

Playing the Discs Ra — Shuffle Play Functions

Playing the tracks on the c randomly — Disc shuffle pl

Press the SHUF button lightly to get CD play.

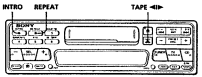
Playing every track on ever selected CD changer randor shuffle play

Press the SHUF button lightly to get CD play.

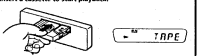
Playing every track on ever and the CD player — All sh more CD changers are conn

Press the SHUF button lightly to get CD play.

Listening to the Tape Playback



Insert a cassette to start playback.



If a cassette is already inserted

Tape transport direction indication.

The side facing up is being played.

The side facing down is being played.

Playing in Other Modes

Playing the beginning of tracks — Intro scan function

Press the INTRO button during playback.

The first 10 seconds of all the tracks are played. When you find the desired track, press the button once more. The unit returns to the normal playback mode.

Playing repeatedly — Repeat play function

Press the REPEAT button during playback.

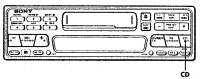
When the currently playing track is over, the same track is played again from the beginning. To cancel this mode, press the button once more.

Note

The intro scan function will be canceled if you turn off the unit by pressing the OFF button or turning the ignition key to the OFF position and leaving it for more than eight seconds.

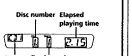
Listening to the CD Play

(With the Optional CD Changer(s) Connected)



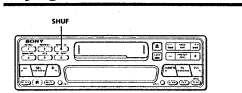
Press the CD button.

CD plays starts.



If the unit is set in the normal playing mode, after the end of a disc, the disc with the next number shown will be automatically played. If two or more CD changers are connected, after the end of the last disc, the first disc in the CD changer with the next number shown will be played. The order of the CD play can be rearranged by changing the playing modes. For details, see "Playing in Other Modes" (page 18).

Playing in Other Modes



Playing the Discs Randomly

— Shuffle Play Functions

Playing the tracks on the currently selected disc randomly — Disc shuffle play

Press the SHUF button lightly to get the "SHUF 1" indication during CD play.

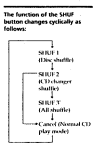
Playing every track on every disc in the currently selected CD changer randomly — CD changer shuffle play

Press the SHUF button lightly to get the "SHUF 2" indication during CD play.

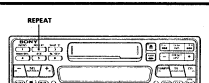
Playing every track on every disc in the CD changer and the CD player — All shuffle play (when two or more CD changers are connected)

Press the SHUF button lightly to get the "SHUF 3" indication during CD play.

The function of the SHUF button changes cyclically as follows:



* All-shuffle play (SHUF 3) mode functions only when two or more changers are connected to the unit. When only one changer is connected, the "SHUF 3" indication will not be displayed. In this case, if you press the SHUF button again while the "SHUF 2" indication is being displayed, the shuffle play will be canceled.



Playing a Disc Repeatedly

— Repeat Play Functions

Playing the currently selected track repeatedly — Track repeat

Press the REPEAT button lightly to get the "REP 1" indication during CD play.

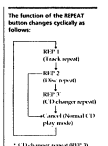
Playing the currently selected disc repeatedly — Disc repeat

Press the REPEAT button lightly to get the "REP 2" indication during CD play. When the last track on the currently selected disc is over, the CD play is repeated from the beginning of that disc.

Playing the discs in the CD changer repeatedly — CD changer repeat (when two or more CD changers are connected)

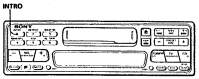
Press the REPEAT button lightly to get the "REP 3" indication during CD play. When the last disc in the CD changer has been played, the CD play will be repeated from the first disc in the currently selected CD changer.

The function of the REPEAT button changes cyclically as follows:



* CD changer repeat (REP 3) mode functions only when two or more CD changers are connected to the unit. When only one CD changer is connected, the "REP 3" indication will not be displayed. In this case, if you press the REPEAT button again while the "REP 2" indication is being displayed, the repeat mode will be canceled.

Playing in Other Modes



Playing the Beginning of Tracks

— Intro Scan Function

Press the INTRO button lightly during CD play.

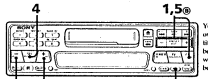
The first 10 seconds of all the tracks on the currently selected disc are played in order. After the first disc is played with the intro scan function, the next disc is played. When two or more CD changers are connected, after the last disc is played, CD play moves on to the next CD changer.

When you find the desired track, press the INTRO button once more.
The unit returns to the normal CD play mode.

If the INTRO button is pressed during shuffle play, the first 10 seconds of every track will be played randomly.

Displaying the Title of Each Disc

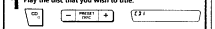
— Disc Memo Function



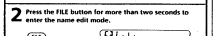
You can put a title of your own choice onto a disc (one title per disc). The title can be displayed on the display window while the disc is being located and played.

Putting Your Personalized Titles onto the Discs

1 **Play the disc that you wish to title.**

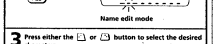


2 **Press the FILE button for more than two seconds to enter the name edit mode.**

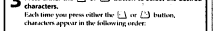


3 **Press either the ↑ or ↓ button to select the desired characters.**

Each time you press either the ↑ or ↓ button, characters appear in the following order.



4 **Press the SEL button after locating the desired character.**



The flashing part will moves to the next space on the right. Repeat steps **3** and **4** to enter the entire titles. Up to eight characters can be used per disc.

Notes

* If you press the SEL button when the eighth character (farthest right character) is flashing, the flashing part goes back to the first character (farthest left character).
* If you wish to put a blank space after a character, select " " (under bar).

(Continued on next page)

Displaying the Title of Each Disc

5 **Ⓐ To return to the normal CD play mode**
Press the FILE button for more than two seconds.

Ⓑ To continue to put titles onto the discs

If you press the CD button, the next CD changer will be selected. (when two or more CD changers are connected)

Changing a title

Play the disc whose title you wish to change and repeat steps **2** to **5**.

Erasing a title

1. **Select the CD changer and play any disc.**
2. **Press the CD button for more than two seconds to enter the name edit mode.**
3. **Press the ↓ button while pressing the preset number button 5.**
4. **Press either the ↑ or ↓ button to select the title that you wish to erase.**
5. **Press the ↓ button for more than two seconds.**
   Repeat step **4** and step **5** if necessary.
6. **Press the CD button for more than two seconds.**
   Now the title and the PLAY/SKIP settings are erased.
   The unit returns to the normal CD play mode.

When you change the title, the PLAY/SKIP settings of the bank function will not be erased at the same time.

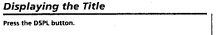
If you erase the title, the PLAY/SKIP settings of the bank function will be erased as well.

The alternative method to erase a title

You can erase a title by selecting eight " "s (under-bars) as described in step 3 of "Putting Your Personalized Titles onto the Discs" (page 21).

Displaying the Title

Press the DSPL button.



Title display modes

While loading the discs, whichever the display mode the unit is in, the indication on the display window automatically changes as follows:

→ The title of the disc (two seconds) → Disc and track number (two seconds) → Currently selected display mode (two seconds)

Custom file function

You can register the customized titles and the PLAY/SKIP settings on up to 100 discs* per CD changer (custom file function). These settings are stored in the memory of the CD changer. Therefore, even if you take a custom-filed disc out of the CD changer, you can still use the same custom file function the next time you play that disc in the same CD changer. Furthermore, if your system has several CD changers connected, you can play that disc in another CD changer and still use the same custom file function, provided that the CD changers are inter-connected with the unilink cables.

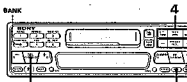
* If you try to register more than 100 discs, the unit will display the "FULL" indication and will not accept the command for custom filing. In this case, you will have to erase the memory of other discs before you enter the new ones (page 22).

Note

The registered titles of the discs may not come on the display window immediately while it is being loaded inside the CD changer.

Playing Selected Tracks on a Disc

— Bank Function



Setting the Play and Skip Modes on the Discs

1 Play the disc to which you wish to set these modes.

2 Press the FILE button for more than two seconds and put the titles onto the discs.

FILE

See page 21 for details about putting on a title. If the title has already been registered, go to step 3.

3 Press the FILE button lightly to enter the PLAY/SKIP edit mode.

FILE

PLAY/SKIP edit mode

4 Press either side of the AMS button to select the track number you wish to skip and press the SEL button.

SEL

The indication changes from "PLAY" to "SKIP". If you wish to return to "PLAY", press the SEL button once more.

Repeat the operation in this step to set either the "PLAY" or "SKIP" mode on all the tracks.

Notes

- When the title is not registered, you cannot enter the PLAY/SKIP edit mode even if you press the FILE button.
- You can only set the "SKIP" mode note up to 24 tracks. If a disc has more than 24 tracks, you will not be able to set the "SKIP" mode on the tracks after the 24th track.
- You cannot set the "SKIP" mode note all of the tracks on a disc.

5 Press the FILE button for more than two seconds.

FILE

The unit returns to the normal CD play mode.

Playing with the Bank Function

Press the BANK button lightly during CD play.

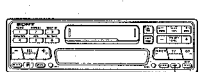
BANK

The "BANK" indication appears on the display window. The unit starts playing the tracks with "PLAY" settings which have been set by the PLAY/SKIP edit mode.
To return to the normal CD play mode, press the BANK button once more.

When the BANK button is pressed while pressing the SEL button, the unit starts playing the tracks with "SKIP" settings which have been set by the PLAY/SKIP edit mode.
To go back to the normal playing mode, press the BANK button again while pressing the SEL button.

Even when you play a disc with the PLAY/SKIP settings, if the "BANK" indication has not appeared on the display window, the disc will not be played according to the settings.

XR-430 :
Displaying the Stored CD's Information on the TV Monitor *(When the Optional TV Tuner Unit and TV Monitor are Connected)*



The titles of the discs inside and other information stored in the currently selected CD changer will be listed on the TV monitor.

Press the FILE button lightly during CD play.

FILE

Example: When the CD changer 1 is selected

- A blank space will be displayed if there is a disc receiver representing an empty slot in the disc magazine.
- If a title is registered on the custom file, this name will be displayed. If not, "********" will be displayed in its place.
- "?" will be displayed if the TOC information of the disc has not been rotated with the custom file.
- The name of the currently playing disc will be displayed in magenta.

Turning off the display

Press the FILE button once more.

Notes

- It may take some time before all the displays come onto the screen.
- The contents of the preset memory cannot be listed when the unit is in the simultaneous play mode (page 36).

Tuning in a Station

TV reception can be made only when the optional TV tuner unit is connected to the optional TV monitor.

Searching for the Stations Automatically

— Automatic Tuning

1 Select the desired band.

TUNER, TV

2 Press either side of the SEEK button lightly.

For lower frequencies (lower frequency channels) — For higher frequencies (higher frequency channels)

The scanning stops when a station is received. Press either side of the button repeatedly until the desired station is received.

When an FM stereo program with a sufficient signal strength is tuned in

The "ST" indication will appear.

Avoiding the automatic tuning from stopping on stations too frequently (Local Seek Mode)
Press the SENS button lightly to get the "LCL" indication. Only the stations with relatively strong signals can be tuned in. The local seek mode functions only when the Automatic Tuning is in operation.

If FM stereo broadcasting is difficult to receive (Monaural Mode)
Press the SENS button lightly to get the "MONO" indication. The sound is ill improved, but it will become unstressed.

Tuning in by Adjusting the Frequency (Channel) — *Manual Tuning*

Select the desired band, then press and hold either side of the PRESET button.

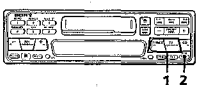
For lower frequencies (lower frequency channels) — For higher frequencies (higher frequency channels)

Release the button when the desired station is received.

PREVENTING ACCIDENTS!

While you are driving, the use of the Automatic Tuning and the Memory Preset Tuning is recommended instead of the Manual Tuning.

Memorizing the Stations Automatically



The best receiving stations are automatically searched and memorized on each band (FM1, FM2, FM3, AM and TV). Up to 6 stations on each band can be stored on the preset number buttons 1 to 6 in order of frequency.

Memorizing the Stations Automatically
— BTM (Best Tuning Memory) Function

1 Select the desired band.

FM 1

2 Press the BTM button for more than two seconds.

BTM

The BTM function

During radio reception, the BTM function searches all the receivable stations within the currently selected band and memorizes the ones in good receiving conditions in sequence from the lowest frequency.

How to memorize the stations on the preset number buttons

— When there is no preset number indicated on the display window, all the preset number buttons set in the currently selected band will be filled with the memories.

— When there is a preset number indicated on the display window, the unit will memorize the stations on the preset number buttons from the one currently being displayed. For example, when you choose FM2 and preset number 3 is being displayed, the operation will start from preset number 3 on FM2, and will stop at preset number 6 on FM2.

The receivable frequency ranges of the FM bands (FM1, FM2, FM3) are the same. Therefore, 18 stations can be memorized on FM.

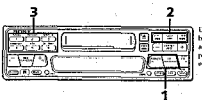
Note

There may be cases where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such cases, the BTM operation may stop without all the buttons being occupied with memories.

Note

During TV operation, the unit memorizes up to 12 receivable stations in order of two-channel numbers.

Memorizing Only the Desired Stations



Up to 6 stations on each band (FM1, FM2, FM3, AM and TV) can be stored on the preset number buttons in order of your choice.

(For example, to store a station on preset number button 1.)

1 Select the desired band.

FM 1

2 Tune in the station which you wish to store on the preset number button.

3 Keep the preset number button pressed for about two seconds until a beep tone is heard.

FM 1 87.9

The number of the pressed preset number button now appears on the display window.

Repeat the same procedure to store other stations.

Each preset number button has only one memory location per band

If you try to store another station on the same preset number button, the previously stored station will be erased.

Receiving the Memorized Stations

1 Select the desired band.

FM 1

2 Press the desired preset number button lightly.

Notes

- There may be cases where even the stations which are stored in the memory cannot be received due to weak signals in the vicinity of your car.
- If you keep pressing the preset number button for more than two seconds, the currently switched station will be memorized once more. To restore the previously memorized station, make sure that the preset number button is pressed only lightly.

Receiving in Order the Stations Stored in the Memory — Preset Search Function

(Press lightly.)

The number will advance in the following order.

1 → 2 → ... → 5 → 6 → 1 → ...

(number of the preset number buttons)

(Press lightly.)

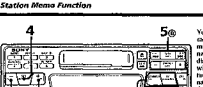
The number will reverse in the following order.

1 → 6 → 5 → ... → 2 → 1 → ...

Note

Make sure that you press either side of the SHUE button lightly. If you keep it pressed, the button will function as the manual tuning button.

Displaying the Name of Each Station
— Station Memo Function



You can store the names of radio/TV stations in the memory of the tuner. The name of the station can be displayed on the display window while it is being tuned in. You can store the names of the TV stations in the same way. The steps described below can be applied to the TV operation as well.

Storing the Station Names in the Memory of the Tuner

1 Tune in a station whose name you wish to register.
Using automatic tuning or manual tuning (see page 8).

FM 1

2 Press the MLS button for more than two seconds to enter the name edit mode.

MLS

FM 1

Name edit mode

3 Press either the ▷| or |◁ button to select the desired characters.

Each time you press either the ▷| or |◁ button, characters appear in the following order.

▷|

A → B → C → ... → W → X → Y → Z → 0 → 1 → 2 → ... → 9 → ...

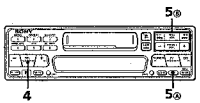
|◁

→ ... → 9 → 8 → 7 → ... → 2 → 1 → 0 → Z → Y → X → ... → A

FM 1

(Continued on next page)

Displaying the Name of Each Station



4 Press the SEL button after locating the desired character.

SEL

FM1 01 A

The flashing part moves to the next space on the right. Repeat steps 3 and 4 to enter the entire name. Up to eight characters can be used per name.

5 ② To return to the normal radio/TV reception mode
Press the FILE button for more than two seconds.

FILE

② To continue to put names onto the stations

TUNE + / SEEK + or TUNE − / SEEK −

Tune in another station and repeat the procedure.

Notes

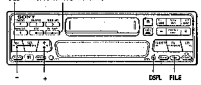
- If you press the SEL button when the eighth character (farthest right character) is flashing, the flashing part will move back to the first character (farthest left character).
- If you wish to put a blank space after a character, select the " _ " (underbar).

Note

You can store up to 62* names, but if you try to store more, the "FULL" indication will appear on the main display window and you will not be able to register them. You can register more names after erasing some of the existing names.

* If the optional TV tuner unit is connected, you can store the names of all the receivable TV stations as well.

SEL Preset number button 5



Displaying the Name

Press the DSPL button.

DSPL

HPR 755

Erasing a name

1 **Tune in any station.**
2 **Press the SEL button for more than two seconds to enter the name edit mode.**
3 **Press the SEL button while pressing preset number button 5.**
4 **Press either the + or − button to search for the names you wish to erase.**
5 **Press the SEL button for more than two seconds.**
Repeat steps 4 and 5 if necessary.
6 **Press the SEL button for more than two seconds.**
The unit returns to the normal radio/TV reception mode.

Changing a name

Tune in the station whose name you wish to change and repeat steps 2 to 5 of "Storing the Station Names in the Memory of the Tuner" (page 31).

The alternative method to erase a name

You can erase a name by selecting eight " _ " (underbars) as described in step 3 of "Storing the Station Names in the Memory of the Tuner" (page 31).

XR-430 :

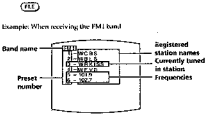
Displaying the Contents of the Preset Memory on the TV Monitor *(When the Optional TV Tuner Unit and TV Monitor are Connected)*

The contents of the preset memory stored on the currently received band is listed on the TV monitor.

Press the FILE button lightly during radio/TV reception.

FILE

Example: When receiving the FM1 band



- If the name of a station is registered, that name will be displayed. If the name of a station is not registered, the frequency of that station will be displayed.
- The name of the currently tuned in station will be displayed in magenta.

Turning off the display

During radio reception, press the FILE button once more. During TV reception, the list display on the TV monitor will automatically turn off after a few seconds.

Notes

- It may take some time before all the displays appear on the screen.
- The information cannot be listed when the unit is in the simultaneous play mode (page 36).

XR-430 :

Watching Video

1 **Press the TV button to get the "VIDEO 1" indication.**

TV

TUNER VIDEO 1

You can only get the "VIDEO 2" indication if the VIDEO 2 terminal of the TV monitor is selected.

2 **Play back the video.**

XR-430:

Watching TV or Video While Listening to CD or Tape — *Simultaneous Play Function*

During TV reception or video playback:
Press the CD or TAPE button for more than two seconds.

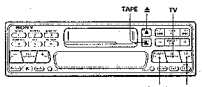
The sound from the TV or video is turned off and the sound from the CD or tape can be heard instead.
However, you can continue to watch the picture on the monitor screen.

Note: During simultaneous play, you cannot control the TV or video (channel change, etc.).

When the unit is in the simultaneous play mode, you can still listen to the sound from the TV or video through headphones plugged into the monitor.

Notes

- The simultaneous play function will not work while you are listening to the radio.
- The ATA function will not work when the unit is in the simultaneous play mode.
- The contents of the preset memories or CD information cannot be listed on the TV monitor when the unit is in the simultaneous play mode.



Returning to the normal mode by canceling the simultaneous play mode

To listen to a tape

(Press for more than two seconds.)

To listen to a CD

(Press for more than two seconds.)

To listen to the radio

To watch TV or video

The simultaneous play mode is canceled and the unit returns to the TV reception or video playback mode in the following cases

- In the case where the ≜ button is pressed when the unit is in the simultaneous play mode with tape playback.
- In the case where the EJECT button on a CD changer is pressed when the unit is in the simultaneous play mode with CD play.

The simultaneous play mode will be canceled even if you press the same button on the TV remote control.

Installation

Precautions

- Choose the installation location carefully so that the unit will not hamper the driver during driving.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- **Press the reset button after completing the connections.**

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

How to Detach and Attach the Front Panel

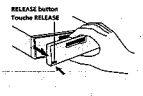
Before installing the unit, detach the front panel.

To detach
Press the RELEASE button to open up the front panel, then pull it out.

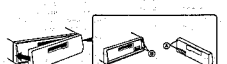
To attach
Align parts Ⓐ and Ⓑ, and push the front panel until it clicks.

To detach
Dépose

RELEASE button
Touche RELEASE

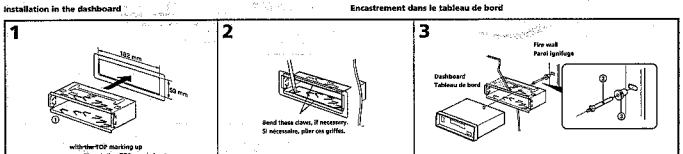


To attach
Fixation



Mounting Example

Installation in the dashboard

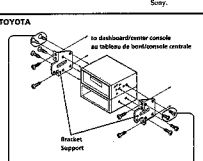


Mounting the Unit in a Japanese Car

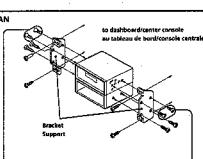
This unit may not be installed in some makes of cars. In this case, consult your nearest Sony dealer.

1 **Run a blade along the slits on the back of the front trim and cut it off the unit.**
Passez une lame le long des fentes à l'arrière de la bordure avant et la couper.

2 **TOYOTA**



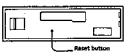
NISSAN



Note
Use the existing parts supplied to your car

Reset Button

When the installation and connections are over, be sure to press the reset button with a ballpoint pen etc. The reset button is located under the cassette insertion door when the front panel is detached.



Installation

Précautions

- Choisir soigneusement l'emplacement de l'installation, pour ne pas gêner la conduite.
- Eviter d'installer l'appareil là où il serait soumis à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, là ou il serait soumis à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sur, n'utiliser que le matériel fourni.
- **Les connexions achevées, appuyer sur la touche de réinitialisation.**

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

Dépose et fixation du panneau avant

Avant d'installer l'appareil, déposer le panneau avant.

Dépose
Appuyer sur la touche RELEASE pour ouvrir le panneau avant, puis le tirer.

Fixation
Aligner les parties Ⓐ et Ⓑ, puis pousser l'appareil jusqu'au déclic.

Exemple d'installation

Encastrement dans le tableau de bord

Installation de l'appareil dans une voiture japonaise

Cet appareil peut pas être installé dans certaines voitures. Consultez, dans ce cas, votre concessionnaire Sony.

Remarque
Utiliser les pièces fournies avec la voiture.

Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo ou bille ou autre objet pointu. La touche de réinitialisation est située sous le volet d'insertion de cassette quand le panneau avant est enlevé.

Connections/Connexions

Precautions

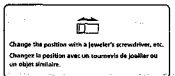
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow and red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the **accessory position.**
- **Run all ground wires to a common ground point.**

POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not used. However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key lock.** To avoid this battery wear in such a car **set the POWER SELECT switch, located on the bottom of the unit, to the OFF position. The** illumination is reset to stay off when the unit is not used.

Note

The caution sharm for the front panel is not activated when the POWER SELECT switch is set to the OFF position.


Change the position with a jeweler's screwdriver, etc.
Changer la position avec un tournevis de joaillier ou un objet similaire.

Précautions

- Cet appareil est conçu pour fonctionner uniquement sur courant continu de 12 V.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie de voiture pour éviter un court-circuit.
- Brancher les fils d'entrée d'alimentation jaune et rouge seulement après avoir terminé tous les autres branchements.
- Veillez à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoire.
- **Raccorder les fils de terre à un point de masse commun.**

Interrupteur POWER SELECT

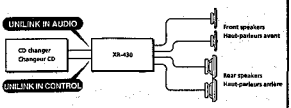
L'éclairage du panneau avant est réglé en usine pour rester allumé même quand l'appareil n'est pas utilisé. Cependant, **dans le cas des voitures dont la clé de contact n'a pas de position accessoire,** la batterie s'épuise. Pour éviter cet inconvénient, **régler l'interrupteur POWER SELECT situé sur le socle de l'appareil sur la position OFF.** L'éclairage s'éteint quand l'appareil n'est pas utilisé.

Remarque

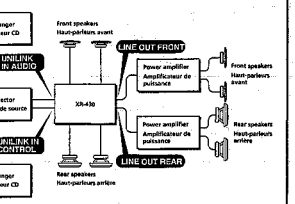
Quand l'interrupteur POWER SELECT est réglé sur OFF, l'avertisseur du panneau avant ne fonctionne pas.

Connection Diagram/Schéma de raccordement

Example 1
Exemple 1



Example 2
Exemple 2



If you connect two or more CD changers, the source selector XA-U20 or XA-U40 is required.

Vous devrez utiliser le sélecteur de source XA-U20 ou XA-U40, si vous raccordez au moins deux changeurs.

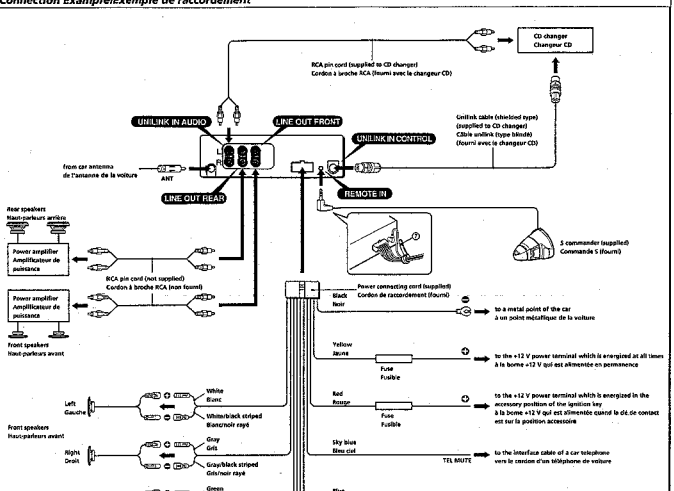
Note

When the optional graphic equalizer or digital signal processor is connected to the unit, the built-in power amplifier of the unit cannot be used.

Remarque

Si vous raccordez un égaliseur graphique ou un processeur numérique à l'appareil, l'amplificateur intégré ne peut pas être utilisé.

Connection Example/Exemple de raccordement



Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function.
- A power antenna without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Note on 5 commander connection

To connection the plug of the 5 commander securely to the back of the unit, bundle its cord with other connecting cords with the supplied clamper Ⓐ as illustrated. When bundling the cords together, make sure that you leave some leeway for the plug end of the 5 commander's cord so that the plug will not come out when other cords are pulled.

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne électrique (bleu) fournit un courant continu de +12 V quand vous mettez l'appareil sous tension ou utilisez la fonction ATA (Automatic Tuner Activation).
- Vous ne pouvez pas utiliser d'antenne électrique sans boîtier de relais.

Connexion pour la conservation de la mémoire

Lorsque le fil d'arrivée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur la connexion des haut-parleurs

- Avant de raccorder les haut-parleurs, éteindre l'appareil.
- Utiliser des haut-parleurs avec une impédance de 4 à 8 ohms et qui peuvent supporter l'alimentation fournie sinon ils risquent d'être endommagés.
- Ne pas connecter les bornes du système de haut-parleur au châssis de la voiture et ne pas raccorder les bornes du haut-parleur droit aux bornes du haut-parleur gauche.
- Ne pas essayer de connecter les haut-parleurs en parallèle.
- Ne pas connecter d'enceintes acoustiques actives (avec amplificateurs intégrés) aux bornes d'enceinte de cet appareil, pour éviter d'endommager les enceintes. Veiller à raccorder des enceintes passives.

Remarques sur la connexion de la manette de commande 5

Pour que la fiche de la commande 5 ne se débranche pas de la prise à l'arrière de l'appareil, utiliser son cordon ou autre cordons de raccordement avec le collier fourni Ⓐ, comme indiqué sur l'illustration. Quand vous liez le faisceau, laissez un peu de jeu à l'extrémité du cordon de la commande pour que la fiche ne sorte pas de la prise quand vous relâchez d'autres cordons.

9-959-272-81

Sony Corporation
Mobile Electronics Group

English
94C0423-1
Printed in Japan
© 1994. 3

Published by Audio Sector Quality Assurance Dept.